

Results of the Meteorological Observations taken at the Alipore Observatory from
30th November to 6th December 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
		°		Inches.	°	°	°	°	°	Inches.	°	%			Inches.	
Nov.	30th	131.5	9.5	29.998	67.0	77.3	19.7	57.6	62.5	0.507	59.3	78	NNE and calm ..	23	Nil	Clear, Δ , \equiv .
Dec.	1st	131.3	9.2	.935	66.2	77.4	21.1	56.3	61.9	.501	59.0	75	N by E and calm ...	21	"	Chiefly clear, Δ , \equiv .
"	2nd	128.5	7.9	.965	66.5	77.5	21.7	55.8	62.1	.502	59.1	79	N by E and calm ...	12	"	Chiefly clear, Δ , \equiv .
"	3rd	131.5	9.2	30.014	66.6	77.3	20.8	56.5	62.3	.509	59.4	79	WNW and calm ...	12	"	Clear, Δ , \equiv .
"	4th	129.5	6.3	.021	66.3	76.5	20.5	56.0	61.9	.499	58.9	79	NW and calm ...	11	"	Partially cloudy, Δ , \equiv .
"	5th	131.8	6.8	29.973	67.2	78.5	20.9	57.6	62.6	.511	59.6	78	WNW, calm and variable.	22	"	Partially cloudy, Δ , \equiv .
"	6th	132.5	8.7	.939	67.3	79.2	22.2	57.0	61.8	.481	57.8	75	W and calm ...	25	"	Chiefly clear, Δ , \equiv .

The mean pressure of the seven days 29.978
 The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 30.014

The total number of hours of bright sunshine 57.6
 The maximum possible number of hours of sunshine 75.6

The mean temperature of the seven days 66.7
 The average temperature of the corresponding period for 24 years, S.-G.'s Office 70.3
 The extreme variation of temperature 23.4
 The maximum temperature 79.2

The highest velocity of the wind in one hour 6
 The highest pressure of wind on one square foot ?

The mean relative humidity 78
 The average relative humidity of the corresponding period for 24 years, S.-G.'s Office ... 71

The total fall of rain from 30th November to 6th December 1890 ... Nil
 The average fall of the corresponding period for 24 years, S.-G.'s Office ... 0.04
 The total fall from 1st January to 6th December 1890 ... 61.25
 The average fall of the corresponding period for 24 years, S.-G.'s Office ... 65.19

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

Δ , dew; \equiv , fog.

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

Abstract of the Results of the Barometric and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of November 1890.

	Inches.	Dats.
The mean pressure at 10 A.M. during the month ...	30.065	
The mean temperature at 10 A.M. during the month ...	76.6	
The highest temperature during the month ...	84.9	4th.
The lowest temperature during the month ...	57.9	28th, 29th, & 30th.
The absolute range of temperature during the month ...	27.0	
The mean daily range of temperature during the month ...	17.8	
The greatest range of temperature in one day during the month ...	22.0	16th.
The mean 10 A.M. humidity during the month ...	63	
The mean 10 A.M. vapour pressure during the month ...	581	
The total rainfall of the month ...	Nil	
The greatest fall in 24 hours ...	Nil	
The number of rainy days in the month ...	Nil	

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA ;

The 8th December 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 30th November to 6th December 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.				HYGROMETRY.					Rainfall per 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
November...	30th ...	30.113	68.4	78.9	21.0	57.9	72.6	64.6	.504	59.2	63	...
December ...	1st ...	.019	67.8	78.1	20.7	57.4	72.6	65.4	.531	60.6	66	...
"	2nd ...	.048	67.9	78.7	21.6	57.1	72.1	63.6	.476	57.6	60	...
"	3rd ...	.085	68.4	78.9	21.0	57.9	71.8	64.6	.516	59.8	66	...
"	4th ...	.116	67.9	78.1	20.4	57.7	70.6	65.6	.565	62.4	76	...
"	5th ...	.050	69.4	79.8	20.9	58.9	73.1	67.1	.585	63.4	72	...
"	6th ...	.017	69.7	80.9	22.5	58.4	72.6	64.6	.504	59.2	63	...

The mean 10 A.M. pressure of the seven days ... 30.064

The mean temperature of the seven days ... 68.5

The extreme variation of temperature ... 23.8

The maximum temperature ... 80.9

The mean 10 A.M. relative humidity of the seven days ... 67

The total fall of rain from 30th November to 6th December 1890 ... Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA ;

The 8th December 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 22nd November 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 22nd November 1890, in twenty-seven principal towns of Bengal, excluding one (Gya) from which no return has yet been received, correspond to an annual rate of 27.1 per 1,000 of the aggregate population of the twenty-six towns, which is 985,453. This rate is equal to the average rate of the corresponding week of the past five years, and is below the rate of the corresponding week of any of the past five years except 1886 and 1887, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	28.3	23.4	25.1	29.0	29.9	27.1	27.1

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	1st Nov. 1890.	8th Nov. 1890.	15th Nov. 1890.	22nd Nov. 1890.		1st Nov. 1890.	8th Nov. 1890.	15th Nov. 1890.	22nd Nov. 1890.
Burdwan	33.6	32.0	21.4	39.7	Narainganj	66.2	115.9	74.5	37.3
Midnapore	20.1	17.0	15.5	23.2	Chittagong	11.7	14.1	16.4	9.4
Hughli and Chinsurah	42.7	27.9	32.5	44.3	Comillah	19.3	27.0	23.1	27.0
Serampore	53.0	39.3	55.0	43.2	Patna City	11.4	15.3	10.7	13.3
Utterpara	47.2	37.7	37.7	56.6	Gya	16.4	17.8	21.9	Not furnished.
Howrah	31.5	33.8	28.1	36.1	Arrah	21.5	43.1	10.8	33.5
Bali	10.5	21.1	21.1	31.6	Mozufferpore	57.7	32.8	32.8	10.9
Krishnagar	22.7	18.9	13.2	11.4	Durbhanga	59.0	31.5	36.2	40.1
Ranaghat	12.9	12.0	24.0	12.0	Chupra	33.2	19.1	14.1	22.1
Santipore	19.3	15.8	19.3	24.5	Bhagalpore	46.2	50.7	37.1	24.4
Jessore	...	12.2	30.6	6.1	Monghyr	51.5	44.3	30.7	38.9
Rampore Beaulah	36.8	44.7	44.7	52.5	Purneah	3.4	27.7	6.9	10.4
Darjiling	...	14.8	44.5	29.6	Poori	21.0	27.3	14.7	14.7
Dacca	27.9	31.1	24.0	31.1	Total	29.1	28.9	24.2	27.1

It will be seen that last week the highest birth-rate was returned from Utterpara (56.6) and the lowest from Jessore (6.1).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 26.4 per 1,000 of the population. The rate of the week is 6.7 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1887, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	35.7	43.4	22.8	27.1	30.6	33.1	26.4

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	1st Nov. 1890.	8th Nov. 1890.	15th Nov. 1890.	22nd Nov. 1890.		1st Nov. 1890.	8th Nov. 1890.	15th Nov. 1890.	22nd Nov. 1890.
Burdwan	35.1	25.9	22.9	33.6	Narainganj	45.5	41.4	55.0	58.0
Midnapore	21.7	24.8	29.4	29.4	Chittagong	25.8	21.1	14.1	14.1
Hughli and Chinsurah	37.2	27.9	53.5	37.7	Comillah	11.6	23.1	19.3	23.1
Serampore	82.4	45.1	72.6	86.4	Patna City	13.3	16.2	14.3	14.3
Utterpara	56.6	37.7	66.1	23.3	Gya	27.3	44.4	44.4	Not furnished.
Howrah	18.9	19.5	22.9	22.9	Arrah	10.8	23.7	12.0	13.2
Bali	14.0	24.6	21.1	17.5	Mozufferpore	14.6	20.7	17.0	17.0
Krishnagar	11.4	18.9	5.7	5.7	Durbhanga	26.0	14.2	18.9	33.0
Ranaghat	24.0	6.0	12.0	30.0	Chupra	17.1	12.1	8.0	12.1
Santipore	10.5	19.3	7.0	17.5	Bhagalpore	18.1	16.3	17.2	19.0
Jessore	40.0	24.5	44.0	18.4	Monghyr	37.1	40.7	17.1	26.2
Rampore Beaulah	30.4	47.3	13.1	47.3	Purneah	27.7	24.2	13.9	6.9
Darjiling	66.7	22.6	7.4	...	Poori	35.7	23.3	65.0	58.7
Dacca	20.8	21.4	15.6	43.4	Total	23.7	23.9	23.4	26.4

It will be seen that last week the highest mortality occurred in the town of Serampore (86.4) and the lowest in Krishnagar (5.7). No deaths were registered during the week in Darjiling town.

Measured by last week's mortality, the highest annual death-rates from cholera, fever, bowel-complaints and other causes occurred in the following towns:—

<i>Cholera.</i>		<i>Fever.</i>		<i>Bowel-complaints.</i>		<i>Other causes.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.		Ratio per mille.
Poori	8.4	Serampore	51.0	Dacca	11.0	Narainganj	24.8
Howrah	6.3	Rampore Beaulah	31.5	Rampore Beaulah	10.5	Serampore	21.6
Monghyr	5.4	Burdwan	27.5	Poori	10.5	Dacca	20.1
Patna City	2.9	Poori	25.1			Hughli and Chiu-surah	13.1
		Hughli and Chin-surah	23.0			Poori	10.5
		Durbhanga	21.2				

The total mortality from the several registered death-causes in the twenty-six principal towns amounted to 2.3 from cholera, against 1.6 per 1,000 in the preceding week; .2 from small-pox, against .3; 12.7 from fever, against 9.5; 3.8 from bowel-complaints, against 3.7; .4 from injury, against .3; and 7. from other causes, against 6.3 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	27.9	Christians	37.5	Under 1 year	182.9
Females	24.7	Hindus	26.7	1 and under 5 years	30.0
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population...	113	Mahomedans	25.6	5 " 10 "	14.6
				10 " 15 "	11.0
				15 " 20 "	18.5
				20 " 30 "	15.1
				30 " 40 "	19.8
				40 " 60 "	22.1
				50 " 60 "	24.2
				60 years and upwards	78.1

Detailed information regarding the vital statistics of the twenty-six principal towns dealt with in the above review will be found in the statement appended

W. H. GREGG, *Dip. Publ. Health, Camb.*,

The 9th December 1890.

Sanitary Commissioner for Bengal.

[illegible]

		13					14					15					16																		
		MORTALITY ACCORDING TO—																																	
		Class.					Age.																												
DISTRICTS.	NAMES OF MUNICIPALITIES.	DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.					RATIO PER 1,000 OF POPULATION PER ANNUM.																		
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.				
Burdwan ...	Burdwan ...	1	20	1	...	...	388.1	43.9	5.1	...	...	4	4	1	3	...	2	1	5	...	2	315.2	92.2	22.3	62.0	...	13.1	7.5	58.9	...	70.2
Midnapore ...	Midnapore ...	...	13	6	...	...	...	28.1	43.2	...	...	3	...	1	...	3	5	2	2	...	3	216.0	...	13.9	...	49.4	35.4	18.8	27.9	...	85.2
Hughli ...	Hughli and Chinsurah.	...	21	2	...	...	...	43.2	16.9	...	...	2	4	2	1	...	...	5	1	2	6	129.5	93.7	36.0	21.0	...	...	45.6	12.5	40.0	150.5
Serampore ...	Serampore ...	...	38	6	...	...	...	78.3	332.6	...	...	5	5	2	3	1	7	7	3	1	10	366.2	144.0	41.4	70.3	23.8	67.6	73.2	46.2	27.2	373.8
	Utterpara ...	...	3	...	...	...	...	29.3	...	...	...	...	...	...	...	...	...	2	...	...	1	...	...	...	...	...	...	...	145.4	...	200.0
Howrah ...	Howrah ...	1	34	12	...	...	27.5	25.9	30.4	...	...	4	6	2	2	2	7	6	8	3	7	100.8	56.3	16.5	15.8	14.2	16.0	16.2	35.4	28.4	97.0
	Bali ...	...	4	1	...	...	...	15.5	39.7	...	...	...	1	...	...	...	...	2	1	1	...	62.1	...	...	...	...	...	...	53.7	49.6	71.0
Nuddea ...	Krishnagar ...	...	1	2	...	...	...	2.8	12.6	...	...	2	1	...	...	...	...	...	...	...	209.7	21.1	...	...	...	...	...	...	...	...	...
	Ranaghat ...	...	5	...	...	...	...	35.5	...	...	...	...	...	1	...	...	1	1	...	2	...	...	...	...	59.9	...	...	41.7	51.8	...	182.8
Jessore ...	Santipore ...	...	9	1	...	...	...	22.6	5.8	...	...	2	2	...	...	...	2	...	2	2	123.1	35.0	...	...	...	...	...	24.0	...	45.2	53.0
	Jessore ...	...	1	2	...	...	...	11.5	27.2	...	...	...	...	1	...	...	1	1	...	...	...	...	...	...	65.6	...	...	34.0	40.5	...	...		
Rajshahye ...	Rampore Beaulah ...	...	4	14	...	...	...	21.0	74.2	...	...	3	1	3	1	...	3	1	1	2	2	384.2	36.7	75.0	28.9	...	37.5	14.4	42.4	83.8	108.0
Darjiling ...	Darjiling ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dacca ...	Dacca ...	1	57	32	...	...	109.5	47.7	42.3	...	...	12	2	4	2	9	10	9	6	4	12	328.8	14.1	21.0	13.1	64.1	33.9	40.1	37.2	43.9	112.0
	Narainganj ...	...	6	8	...	...	...	49.3	67.5	...	...	3	2	...	1	1	1	1	...	1	4	559.1	91.2	...	45.8	49.8	19.5	24.3	...	63.5	319.9
Chittagong ...	Chittagong ...	1	...	3	...	...	65.3	...	16.2	...	...	2	...	...	...	...	...	...	1	...	1	184.7	...	...	...	...	...	...	23.0	...	65.3
Tippurah ...	Comillah ...	...	3	3	...	...	...	26.2	21.1	...	...	3	1	...	...	1	...	...	1	...	...	525.3	39.8	...	...	41.3	...	...	38.6	...	...		
Patna ...	Patna City ...	...	35	9	...	...	...	15.3	11.4	...	...	5	3	3	2	2	4	9	4	3	9	60.3	10.7	9.3	7.2	9.3	7.2	20.1	11.0	11.0	33.9
Gya ...	Gya	Return not received up to date.									
Shahabad ...	Arrah ...	...	8	3	...	...	...	13.4	12.6	...	...	1	2	...	1	2	...	1	...	1	3	40.4	23.5	...	11.8	32.4	...	8.1	...	16.8	54.1
Mozufferpore ...	Mozufferpore ...	...	6	8	...	...	...	10.4	33.3	...	...	5	1	...	...	1	2	1	1	1	2	272.3	12.9	...	...	17.2	12.1	7.5	10.4	16.0	42.7
Durbhanga ...	Durbhanga ...	1	34	7	...	...	460.2	36.5	20.7	...	...	9	8	4	1	2	2	5	3	1	7	300.0	54.7	26.6	9.4	25.9	7.8	23.3	21.0	11.9	114.0
Sarun ...	Chupra	7	6	9.2	26.2	4	1	3	...	3	2	147.4	5.6	20.0	...	37.7	39.6			
Bhagulpore ...	Bhagulpore ...	...	15	6	...	...	...	19.6	18.1	...	...	4	3	3	...	1	3	...	4	...	3	174.2	28.8	26.6	...	12.4	14.3	...	33.0	...	43.3
Monghyr ...	Monghyr ...	...	24	5	...	...	...	27.9	20.7	...	...	6	3	1	1	2	2	6	2	...	6	210.1	25.1	7.4	9.1	27.5	10.1	35.0	16.3	...	87.0
Purneah ...	Purneah ...	...	2	...	...	...	...	11.3	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	31.6	...	...	...	
Poori ...	Poori ...	...	28	...	...	...	...	59.4	...	...	...	4	1	2	...	...	6	1	...	8	6	686.5	28.9	46.4	...	...	59.1	12.8	...	186.5	172.8
TOTAL ...		5	336	137	...	...	37.5	26.7	25.6	...	...	83	59	29	19	27	57	62	49	33	91	182.9	30.0	14.6	11.0	18.5	15.1	19.8	22.1	24.2	78.1

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing Quantities of Goods carried during the month of August 1890.

ORISSA CIRCLE

TALDUNDA CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDA CANAL, 27 MILES.
MACHGONG " 4 "

Number of boats & rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
23	1. Grain ...	52	103	155	10,360	155	10,360	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....
3	4. Salt ...	.....	29	29	3,150	29	3,150	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....	.....
...	7. Building materials ...	.....	.....	.....	.....	.....	.....
19	8. Miscellaneous ...	25	178	203	3,387	203	3,387	
1	9. Fuel ...	4	.....	4	20	4	20	
1 raft	10. Timber ...	.....	4 No.	4 No.	20	4 No.	20	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....
16 & raft.	12. Total ...	{ 81	310 & 4 No.	391 & 4 No.	{ 16,937	{ 391 & 4 No.	{ 16,937	
18 & rafts.	13. Total of same month last year.	{ 74	493 & 2,300 No.	567 & 2,300 No.	{ 24,558	{ 567 & 2,300 No.	{ 24,558	
		Up.	Down.	Total.			Rs. A. P.	
Total number of boats plying cargo No.		14	32	46	Total tollage of month— 24 + 25 + 26 ...		147 0 6	
Total number of boats plying passenger No.		1	.....	1				
Do. empty boats „		38	11	49	Total tollage of same month last year ...		244 3 6	
Total registered tonnage, cargo Tons		81	310	391				
Do. empty Govt. ...		5	.....	5				
Total registered tonnage, passenger Tons		1	.....	1	<i>Memorandum of Tollage.</i>			
Do. empty boats ton mileage ...		2,643	1,123	3,766				
Ton-mileage ...		4,087	6,740	10,827				
Estimated value of cargo Rs.		7,100	9,817	16,917	1. Balance not recovered on the 1st of the month ...		46 13 0	
Number of passengers ...		1	.....	1	2. Tollage per month ...		147 0 6	
Rafts, bamboos C. ft.		.....	.....	.....	3. Total ...		193 13 6	
Do., bullahs No.		.....	4	4	4. Amount credited in the accounts of the month ...		144 4 0	
Estimated value of rafts Rs.		.....	20	20	5. Balance due at the end of the month ...		49 9 6	
Tollage on boats „		53-4-0	91-3-0	144-7-0				
Compounded tollage on boats Rs.		.....	.....	.....	
Tollage on rafts „		.....	1-1-6	1-1-6				
Demurrage of one boat		1-8-0	.....	1-8-0				
Total tollage on boats per ton-mile Rs.		.....	.....	0-0-2-60				
Total tollage on rafts per 100 cubic feet Rs.		.....	.....	.....	

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
209	1. Grain ...	376	2,775	3,151	2,57,140	3,151	2,57,140
2	2. Cotton ...	59	.....	59	16,000	59	16,000
59	3. Oilseeds ...	42	1,452	1,494	1,99,600	1,494	1,99,600
20	4. Salt ...	64	15	79	6,500	79	6,500
1	5. Piece-goods ...	22	.....	22	6,000	22	6,000
1	6. Metal ...	1	.....	1	100	1	100
24	7. Building materials ...	9	261	270	9,420	270	9,420
123	8. Miscellaneous ...	747	391	1,138	2,36,890	1,138	2,36,890
29	9. Fuel ...	125	34	159	550	159	550
...	10. Timber ...	.....	.....	.....	.....	.....	...
...	11. Bamboos ...	.....	...	.....	.....	.....	.....
468	12. Total ...	1,445	4,928	6,373	7,32,200	6,373	7,32,200
247 & 1 raft.	13. Total of same month last year.	{ 1,321 }	982 & 4 No.	2,303 & 4 No. }	2,57,670 {	2,283 & 4 No.	2,57,630 }
14. Total number of boats plying cargo	No.	169	299	468	Rs. A.		
15. Total number of boats plying passenger	No.	49	48	97	Total tollage of month— 24 + 25 + 26 ...		
15½. Ditto empty boats	„	276	107	383	7,525 6		
16. Total registered tonnage, cargo, private	Tons	3,004	8,232	11,236	Total tollage of same month last year ...		
16½. Ditto Government ditto	„	.....	.....	.....	3,621 8		
17. Total registered tonnage, passenger	Tons	1,888	1,737	3,625	<i>Memorandum of Tollage.</i>		
17½. Ditto empty boats	„	2,826	546	3,372	Rs. A.		
18. Ton-mileage	...	3,24,717	4,25,298	7,50,015	1. Balance not recovered on the 1st of the month ...		
19. Estimated value of cargo	Rs.	2,35,910	4,96,290	7,32,200	5,278 10		
20. Number of passengers	...	1,604	975	2,579	2. Tollage per month ...		
21. Rafts, bamboos	C. ft.	.....	...	.....	7,525 6		
22. Do., bullahs	„	.....	.....	.....
23. Estimated value of rafts	Rs.	.....	.....	.....
24. Tollage on boats	„	2,774-0-1	4,751-5-11	7,525-6-0	3. Total ...		
25. Compounded tollage on boats	Rs.	.....	.....	.....	12,804 0		
26. Tollage on rafts	„	.....	.....	.....	4. Amount credited in the accounts of the month ...		
27. Total tollage on boats per ton-mile	Rs.	.....	.....	0-0-1-9	5,190 7		
28. Total tollage on rafts per 100 cubic feet	Rs.	.....	.....	.....	5. Balance due at the end of the month ...		
					7,613 9		

HIGH LEVEL CANAL, RANGE I.
LENGTH OF CANAL OPEN, 33 MILES.

Number of boats plying.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Quantity.	Value.	
		Up.	Down.	Total.	Tons.	Rupees.	
134	1. Grain ...	508	2	510	510	28,880	
4	2. Cotton ...	4	37	41	41	11,000	
10	3. Oilseeds ...	52	4	56	56	4,630	
54	4. Salt ...	.....	155	155	155	12,690	
...	5. Piece-goods ...	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....
12	7. Building materials ...	25	27	52	52	2,430	
59	8. Miscellaneous ...	79	125	204	204	19,770	
...	9. Fuel ...	.....	.....	.....	.....	.....
...	10. Timber ...	.....	.....	.....	.....	.....
...	11. Bamboos ...	.....	.....	.....	.....	.....
273	12. Total ...	668	350	1,018	1,018	79,400	
258	13. Total of same month last year ...	796	330	1,126	1,126	92,130	
		Up.	Down	Total.	Total tollage of month— 24 + 25 + 26 ...		Rs. A. P. 1,022 11 9
Total number of boats plying cargo No.		171	102	273	Total tollage of same month last year ...		750 2 0
Total number of boats plying passenger No.		20	22	42	<i>Memorandum of Tollage.</i>		
Do. empty boats "		42	107	149			
Total registered tonnage, cargo, private Tons		1,601	827	2,428			
Ditto Govt. ditto "		.....	.....	.....
Total registered tonnage, passenger Tons		360	360	720			
Do. empty. boats "		159	482	641	1. Balance not recovered on the 1st of the month ...		440 10 6
Ton-mileage ...		62,640	47,029	1,09,669			
Estimated value of cargo Rs.		38,560	40,840	79,400	2. Tollage per month ...		1,022 11 9
Number of passengers ...		388	365	753			
Rafts, bamboos C. ft.		.....	.....	.....
Do., bullahs "		.....	.....	.....	3. Total ...		1,463 6 3
Estimated value of rafts Rs.		.....	.....	.....
Tollage on boats "		598-3-0	424-8-9	1,022-11-9	4. Amount credited in the accounts of the month		1,050 0 6
Compounded tollage on boats Rs.		.....	.....	.....
Tollage on rafts "		.....	.....	.....
Total tollage on boats per ton-mile Rs.		.....	.....	0-0-1-8	5. Balance due at the end of the month ...		413 5 9
Total tollage on rafts per 100 cubic feet Rs.		.....	.....	.....

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
63	1. Grain ..	178	12	190	11,267	190	11,267
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
5	3. Oilseeds ..	12	14	26	2,624	26	2,624
1	4. Salt ...	.....	3	3	344	3	344
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	...	.....	.....	.....
3	7. Building materials	5	10	15	200	15	200
18	8. Miscellaneous * ...	.....	52	52	6,980	52	6,980
...	9. Fuel ...	...	.....	.....	...	.....	.....
7 rafts	10. Timber (No. 475)	...	2,850 c. ft.	2,850 c. ft.	1,034	2,850 c. ft.	1,034
...	11. Bamboos ..	.....	.....	.....	.....	...	.....
90 & 7 rafts.	12. Total ...	{ 195	91 2,850 c. ft.	286 2,850 c. ft.	{ 22,449 {	286 2,850 c. ft.	{ 22,449
122 & 1 raft.	13. Total of same month last year.	{ 285	118 & 24 c. ft.	403 24 c. ft.	{ 23,344 {	398½ 24 c. ft.	{ 23,212
		Up.	Down.	Total.			
14. Total number of boats plying cargo ... No.		61	29	90	Total tollage of month— 24 + 25 + 26 ...		
15. Total number of boats plying passenger ... No.		18	18	36			
15½. Ditto empty boats ..		31	48	79	Total tollage of same month last year ...		
16. Total registered tonnage, cargo and boats Tons		384	194	578			
16½. Ditto Govt. ditto ..		.....	.....	.....	Memorandum of Tollage.		
17. Total registered tonnage, passenger Tons		441	448	889			
17½. Ditto empty ditto ..		108	130	238	Rs. A.		
18. Ton-mileage ...		11,108	9,264	20,372	1. Balance not recovered on the 1st of the month ...		
19. Estimated value of cargo Rs.		11,116	10,299	21,415	4 4		
20. Number of passengers ...		296	283	579			
21. Rafts, bamboos C. ft		.....	.....	.....	2. Tollage per month ...		
22. Do., bullahs ..		.....	2,850	2,850	294 4		
23. Estimated value of rafts Rs.		.....	1,034	1,034	3. Total ...		
24. Tollage on boats ..		150-11-9	124-6-6	275-2-3	298 9		
25. Compounded tollage on boats Rs.		.....	.....	.....	4. Amount credited in the accounts of the month ...		
26. Tollage on rafts ..		.....	19-2-6	19-2-6	280 14		
27. Total tollage on boats per ton-mile Rs.		.....	.....	0-0-2-61			
28. Total tollage on rafts' per 100 cubic feet Rs.		.....	.....	0-10-2	5. Balance due at the end of the month ...		
					8 11		

* This is exclusive of annas 5 remitted by the Toll Collector of Rosya during the month of March 1890.

JAJEPORE CANAL

LENGTH OF CANAL OPEN, 6½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Rupees.	Tons.	Rupees.	
24	1. Grain ...	...	13	13	13	672	
1	2. Cotton ...	...	...	...	...	30	
3	3. Oilseeds ...	...	9	9	9	2,500	
...	4. Salt ...	...	...	...	...	...
...	5. Piece-goods ...	...	...	...	...	...
...	6. Metal ...	...	...	...	...	...
...	7. Building materials ...	...	...	...	...	...
12	8. Miscellaneous ...	...	19	19	19	3,565	
4	9. Fuel ...	...	22	22	22	28	
5 rafts.	10. Timber ...	...	2,166 c. ft.	2,166 c. ft.	2,166 c. ft.	1,083	
...	11. Bamboos ...	...	...	...	...	...
44 & 5 rafts.	12. Total ...	{ ... }	63 2,166 c. ft.	63½ 2,166 c. ft.	{ ... }	7,878 2,166 c. ft.	
9 & 3 rafts.	13. Total of same month last year.	{ ... }	19½ 1,200 c. ft.	19½ 1,200 c. ft.	{ ... }	2,710 1,200 c. ft.	

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	1	43	44	Total tollage of month— 24 + 25 + 26 ...	30 13 6
15. Total number of boats plying passenger No.	3	3	6	Total tollage of same month last year ...	5 1 8
15½. Ditto empty ditto "	46	1	47		
16. Total registered tonnage, cargo Tons	1	106	107		
16½. Ditto Govt. boats "	.....	.....	.....	<i>Memorandum of Tollage.</i>	
17. Total registered tonnage, passenger Tons	23	23	46		
17½. Ditto empty ditto "	57	1	58		
18. Ton-mileage ...	486	780	1,266	1. Balance not recovered on the 1st of the month ...	1 13 0
19. Estimated value of cargo Rs.	30	6,765	6,795	2. Tollage per month ...	30 13 6
20. Number of passengers ...	.....	.....	.....	3. Total ...	32 10 6
21. Rafts, bamboos C. ft.	Nil	Nil	Nil	4. Amount credited in the accounts of the month ...	24 3 0
22. Do., bullahs "	.....	2,166	2,166	5. Balance due at the end of the month ...	8 7 6
23. Estimated value of rafts Rs.	.....	1,083	1,083		
24. Tollage on boats "	6-1-0	16-13-6	22-14-6		
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts "	.....	7-15-0	7-15-0		
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3-46		
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-6-3		

SOUTH-WESTERN CIRCLE.
MIDNAPORE CANAL.
LENGTH OF CANAL OPEN, 53 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
1,046	1. Grain ...	5,897	625	6,522	4,13,642	6,522	4,13,642	
2	2. Cotton ...	...	10	10	5,180	10	5,180	
52	3. Oilseeds ...	89	341	430	47,350	430	47,350	
140	4. Salt ...	...	1,279	1,279	1,28,131	1,279	1,28,131	
14	5. Piece-goods ...	33	42	75	1,87,840	75	1,87,840	
17	6. Metal ...	94	88	182	1,66,805	182	1,66,805	
53	7. Building materials ...	293	77	370	2,753	370	2,753	
547	8. Miscellaneous ...	757	1,906	2,663	6,18,527	2,663	6,18,527	
38	9. Fuel ...	19	259	278	2,096	278	2,096	
3 rafts	10. Timber ...	1,345 c. ft.	.....	1,345 c. ft.	920	1,345 c. ft.	920	
7 "	11. Bamboos ...	2,175 "	.....	2,175 "	178	2,175 "	178	
1,909 & 10 rafts.	12. Total ...	{ 7,182 & 3,520 c. ft.	{ 4,627	{ 11,809 & 3,520 c. ft.	{ 15,73,422	{ 11,809 & 3,520 c. ft.	{ 15,73,422	
1,941 & 2 rafts.	13. Total of same month last year.	{ 6,798 & 37,133 c. ft.	{ 4,033 & 21 c. ft.	{ 10,831 & 37,154 c. ft.	{ 12,54,674	{ 10,831 & 37,154 c. ft.	{ 12,54,674	
		Up.	Down.	Total.				Rs. A. P.
14. Total number of boats ply- ing cargo No.		1,182	727	1,909	Total tollage of month— 24 + 25 + 26 ...			10,279 14 6
15. Total number of boats ply- ing passenger No.		696	708	1,404	Total tollage of same month last year ...			12,032 12 6
15½. Ditto empty "		365	634	999				
16. Total registered tonnage, cargo Tons		17,602	11,659	28,661	Memorandum of Tollage.			
17. Total registered tonnage, passenger Tons		4,081	3,815	7,896				
17½. Ditto empty "		1,494	2,893	4,387				Rs. A. P.
18. Ton-mileage ...		409,356	259,918	669,274	1. Balance not recovered on the 1st of the month ...			4,921 9 10
19. Estimated value of cargo Rs.		7,78,854	7,93,470	15,72,324	2. Tollage per month ...			10,279 14 6
20. Number of passengers ...		6,398	9,297	15,695				
21. Rafts, bamboos C. ft.		2,175	.....	2,175				
22. Do., bullahs "		1,345	.....	1,345	3. Total ...			15,201 8 4
23. Estimated value of rafts Rs.		1,098	.....	1,098				
24. Tollage on boats "		6,416-15-6	3,844-12-0	10,261-11-6				
25. Compounded tollage on boats Rs.		.....	.....	.....	4. Amount paid into treasury during the month ...			10,210 2 3
26. Tollage on rafts "		18-3-0	.....	18-3-0				
27. Total tollage on boats per ton-mile Rs.		.....	.....	0-0-2-9				
28. Total tollage on rafts per 100 cubic feet Rs.		.....	.....	0-8-3	5. Balance due at the end of the month ...			4,991 6 1

HIDGELLER TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
519	1. Grain ...	3,799	.....	3,799	1,78,659	3,799	1,78,659	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
8	3. Oilseeds ...	27	23	50	6,510	50	6,510	
72	4. Salt ...	.....	732	732	81,550	732	81,550	
11	5. Piece-goods ...	.....	65	65	45,625	65	45,625	
1	6. Metal ...	.....	2	2	300	2	300	
6	7. Building materials ...	7	63	70	1,865	70	1,865	
833	8. Miscellaneous ...	966	609	1,575	1,11,413	1,575	1,11,413	
9	9. Fuel ...	3	148	151	1,067	119	842	
3 rafts	10. Timber C. ft.	1,815	120	1,935	3,300	1,935	3,300	
...	11. Bamboos ...	.....	.....	...	.....	.....	.....
1,459 & 3 rafts.	12. Total ...	{ 4,802 & 1,815 c. ft.	{ 1,642 & 120 c. ft.	{ 6,444 & 1,935 c. ft. }	4,30,289	{ 6,412 & 1,935 c. ft.	{ 4,30,064	
1,086 & 4 rafts.	13. Total of same month last year.	{ 3,377 & 304 c. ft.	{ 1,147 & 69 c. ft.	{ 4,524 & 373 c. ft. }	2,86,617	{ 4,494 & 373 c. ft.	{ 2,86,405	
		Up.	Down.	Total.				
14.	Total number of boats ply- ing cargo No.	705	754	1,459	Total tollage of month— 24 + 25 + 26 ...			Rs. A. P. 5,705 5 3
15.	Total number of boats ply- ing passenger No.	57	54	111	Total tollage of same month last year			3,855 9 3
16.	Total registered tonnage, cargo Tons	10,127	6,648	16,775	<i>Memorandum of Tollage.</i>			
17.	Total registered tonnage, passenger Tons	553	521	1,074				
18.	Ton-mileage ...	1,93,469	1,30,527	3,23,996	Rs. A. P.			
19.	Estimated value of cargo Rs.	2,05,423	2,21,566	4,26,989				
20.	Number of passengers ...	1,112	1,217	2,329	1. Balance not recovered on the 1st of the month ...			
21.	Rafts, bamboos C. ft.	.....	.....	.....	2,165 5 3			
22.	Do., bullahs ..	1,815	120	1,935	2. Tollage per month ...			
23.	Estimated value of rafts Rs.	3,200	100	3,300	5,705 5 3			
24.	Tollage on boats ..	3,383-15-0	2,310-14-3	5,694-13-3	3. Total ...			
25.	Compounded tollage on boats Rs.	.....	.....	.....	7,870 10 6			
26.	Tollage on rafts ..	10-0-0	0-8-0	10-8-0	4. Amount paid into treasury during the month			
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3-3	5,511 13 0			
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-8-8	5. Balance due at the end of the month			
					2,358 13 6			

SONE CIRCLE.
PATNA CANAL SYSTEM.
LENGTH OF CANAL OPEN, 86½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value. Rupees.	Quantity.	Value.	
		Up.	Down.	Total.		Tons.	Rupees.	
44	1. Grain ...	.....	658	658	48,954	658	48,954	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....
2	4. Salt ...	56	.....	56	5,444	56	5,444	
15	5. Piece-goods ...	102	6	108	18,845	108	18,845	
...	6. Metal ...	7	1	8	2,460	8	2,460	
8	7. Building materials ...	16	45	61	700	48	425	
35	8. Miscellaneous ...	169	199	368	56,358	368	56,358	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....
...	10. Timber ...	.....	.....	.....	.....	.....	.....
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....
104	12. Total ...	350	909	1,259	1,32,761	1,246	1,32,486	
120	13. Total of same month last year ...	319	946	1,265	1,40,098	1,257	1,39,723	
		Up.	Down.	Total.				Ra. A. P.
14.	Total number of boats plying cargo No.	38	66	104	Total tollage of month— 24 + 25 + 26 ...			1,380 4 6
15.	Total number of boats plying passenger No.	6	4	10				
15½.	Ditto empty boats "	34	8	42	Total tollage of same month last year ...			1,651 9 7
16.	Total registered tonnage, cargo Tons	613	1,338	1,951				
17.	Total registered tonnage, passenger Tons	206	164	370				
17a.	Ditto empty boats "	218	50	268	<i>Memorandum of Tollage.</i>			
18.	Ton-mileage ...	65,131	76,637	1,41,768				Ra. A. P.
19.	Estimated value of cargo Rs.	48,897	83,864	1,32,761	1. Balance not recovered on the 1st of the month ...			195 2 6
20.	Number of passengers ...	475½	349	824½	2. Tollage per month ...			1,380 4 6
21.	Rafts, bamboos C. ft.	.....	.....	.....	
22.	Do., bullahs "	.....	.....	.....	
23.	Estimated value of rafts Rs.	.....	.....	.....	3. Total ...			1,575 7 0
24.	Tollage on boats "	451-8-3	778-12-3	1,230-4-6				
25.	Compounded tollage on boats Rs.	75-0-0	75-0-0	150-0-0				
26.	Tollage on rafts "	.....	.....	.....	4. Amount credited in the accounts of the month ...			1,401 13 0
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-18				
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....	5. Balance due at the end of the month			173 10 0

ARRAH CANAL SYSTEM.
LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
37	1. Grain ...	44	387	431	29,079	431	29,079	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
1	3. Oilseeds ...	.....	7	7	400	7	400	
10	4. Salt ...	72	.....	72	10,910	72	10,910	
3	5. Piece-goods ...	11	.....	11	15,230	11	15,230	
1	6. Metal ...	3	.....	3	75,342	3	75,342	
20	7. Building materials ...	33	199	232	3,719	203	3,408	
32	8. Miscellaneous ...	55	128	183	16,653	154	15,888	
22	9. Fuel ...	.....	338	338	4,720	326	4,546	
...	10. Timber ...	.....	.....	.....	.....	.....	.....
Rafts	11. { Bullahs ...	.....	50	50	150	50	150	
	{ Bamboos ...	.....	.....	.....	.....	.....	.....
126	12. Total ...	218	1,109	1,327	1,56,203	1,257	1,54,953	
231	13. Total of same month last year.	324	1,474	1,798	2,31,046	1,688	2,30,705	

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	32	94	126	Total tollage of month— 24 + 25 + 26 ...	1,356 15 0
15. Total number of boats plying passenger No.	4	2	6	Total tollage of same month last year ...	1,412 6 6
15½. Total number of empty boats No.	104	3	107		
16. Total registered tonnage, cargo Tons	424	1,881	2,305	<i>Memorandum of Tollage.</i>	
17. Total registered tonnage, passenger Tons	72	59	131		
17½. Total registered tonnage, empty Tons	570	15	585		Rs. A. P.
18. Ton-mileage ...	48,058	92,080	140,138	1. Balance not recovered on the 1st of the month ...	45 8 6
19. Estimated value of cargo Rs.	1,11,515	44,538	1,56,053	2. Tollage per month ...	1,356 15 0
20. Number of passengers ...	737	662	1,399		
21. Rafts, bamboos C.ft.	.....	.....	.....	3. Total ...	1,402 7 6
22. Do., bullahs „	.....	3,800	3,800		
23. Estimated value of rafts Rs.	.....	150	150	4. Amount credited in the accounts of the month ...	1,368 6 9
24. Tollage on boats „	257-12-3	894-6-9	1,152-3-0		
25. Compounded tollage on boats Rs.	100-0-0	100-0-0	200-0-0	5. Balance due at the end of the month ...	34 0 9
26. Tollage on rafts „	.....	4-12-0	4-12-0		
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1-85		
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-2-0		

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
17	1. Grain ...	2	318	320	22,755	320	22,755	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
1	3. Oilseeds ...	.....	25	25	2,200	25	2,200
...	4. Salt ...	5	.....	5	820	5	820
...	5. Piece-goods ...	2	.....	2	1,960	2	1,960
...	6. Metal ...	.....	.....	.....	.....	.....	.....
19	7. Building materials ...	12	337	349	2,105	20	80	
6	8. Miscellaneous ...	17	76	93	14,960	93	14,960	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....
...	10. Timber ...	.....	.....	.....	.....	.....	.....
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....
43	12. Total ...	38	756	794	44,800	465	42,775	
76	13. Total of same month last year.	276	756	1,032	44,483	549	42,042	

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	1	42	43	Total tollage of month— 24 + 25 + 26 ...	511 15 9
15. Total number of boats plying passenger No.	8	9	17		
15½. Ditto empty „	29	4	33		
16. Total registered tonnage, cargo Tons	38	992	1,030	Total tollage of same month last year ...	482 5 9
17. Total registered tonnage, passenger Tons	216	243	459		
17½. Ditto empty „	149	19	168		
18. Ton-mileage ...	6,854	24,979	31,833	Memorandum of Tollage.	
19. Estimated value of cargo Rs.	8,056	36,744	44,800		Rs. A. P.
20. Number of passengers ...	571	684	1,255	1. Balance not recovered on the 1st of the month ...	1 3 6
21. Rafts, bamboos C. ft.	.....	.....	.....	2. Tollage per month ...	511 15 9
22. Do., bullahs „	.....	.....	.....	3. Total ...	513 3 3
23. Estimated value of rafts Rs.	.....	.....	.....	4. Amount credited in the accounts of the month ...	489 10 9
24. Tollage on boats „	33-11-0	264-4-9	297-15-9	5. Balance due at the end of the month ...	23 8 6
25. Compounded tollage on boats Rs.	107-0-0	107-0-0	214-0-0		
26. Tollage on rafts „	.....	.....	.....
27. Total tollage on boats per ton-mile	.....	.....	0-0-3		
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

**ABSTRACT FOR THE MONTH OF AUGUST 1890 AS COMPARED WITH THE
CORRESPONDING MONTH OF THE PREVIOUS YEAR.**

CANAL.	TRAFFIC, 1890-91.						TRAFFIC, 1889-90.						REMARKS.
	During the month.			To end of the month.			During the month.			To end of the month.			
<i>Orissa Circle.</i>	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
Taldunda Canal System ...	147	0	6	1,509	4	8	244	3	6	2,265	9	4	
Kendrapara Canal System ...	7,525	6	0	26,322	11	3	3,621	8	11	17,716	15	1	
High Level, Range I ...	1,022	11	9	3,863	9	9	750	2	0	2,823	8	2	
Ditto " II ...	294	4	9	1,429	6	6	174	2	0	1,277	14	3	
Ditto " III ...	222	8	6	1,045	6	9	109	9	0	634	5	9	
Jajepore Canal ...	30	13	6	100	3	10	5	1	8	35	1	8	
Total Orissa Circle ...	9,242	13	0	34,270	10	9	4,904	11	1	24,753	6	3	
<i>South-Western Circle.</i>													
Midnapore Canal ...	10,279	14	6	52,845	5	9	12,032	12	6	64,793	7	3	
Hidgellie Tidal Canal ...	5,705	5	3	14,753	15	0	3,855	9	3	24,477	9	6	
Total South-Western Circle	15,985	3	9	67,599	4	9	15,888	5	9	89,271	0	9	
<i>Sone Circle.</i>													
Patna Canal System ...	1,380	4	6	10,539	9	8	1,651	9	7	12,619	3	9	
Arrah ditto ...	1,356	15	0	8,886	13	6	1,412	6	6	8,344	4	11	
Buxar ditto ...	511	15	9	3,932	6	3	482	5	9	3,275	11	5	
Total Sone Circle ...	3,249	3	3	23,358	13	5	3,546	5	10	24,239	4	1	
GRAND TOTAL ...	28,477	4	0	1,25,228	12	11	24,339	6	8	1,38,263	11	1	

GOVERNMENT TRANSPORT SERVICE.

CANAL.	TRAFFIC, 1890-91.									TRAFFIC, 1889-90.								
	During the month.			To end of the month.			During the month.			To end of the month.			During the month.			To end of the month.		
	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.
<i>Orissa Circle.</i>	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.
High Level ...	816	320	721 3 7	3,948	4,040	4,351 9 10	424	387	401 2 9	2,563	3,683	2,757 15	424	387	401 2 9	2,563	3,683	2,757 15
Total Orissa Circle ...	816	320	721 3 7	3,948	4,040	4,351 9 10	424	387	401 2 9	2,563	3,683	2,757 15	424	387	401 2 9	2,563	3,683	2,757 15

TOTAL NAVIGATION RECEIPTS.

CANAL	EARNINGS, 1890-91.						EARNINGS, 1889-90.						REMARKS.
	During the month.			To end of the month.			During the month.			To end of the month.			
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
Orissa Canals	9,964	0	7	38,622	4	7	5,305	13	10	27,511	5	6	
Midnapcre Canal	10,279	14	6	52,845	5	9	12,032	12	6	64,793	7	3	
Hidgellce Tidal Canal	5,705	5	3	14,753	15	0	3,855	9	3	24,477	9	6	
Sone Canals	3,249	3	3	23,358	13	5	3,546	5	10	24,239	4	1	
Total	29,198	7	7	1,29,580	6	9	24,740	9	5	1,41,021	10	4	

CALCUTTA,
The 9th December 1890.

G. A. G. SHAW,
Under-Secy. to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 6th December 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 6TH DECEMBER 1890.			WEEK ENDING SATURDAY, THE 7TH DECEMBER 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	483	58,325	866	544	36,075	459
Jute	317	2,05,425	3,638	351	1,68,000	3,020
Firewood	122	72,750	1,039	145	91,575	1,324
Other articles	942	2,34,015	4,036	1,009	2,59,610	3,978
Total	1,864	5,70,515	9,579	2,049	5,55,260	8,781

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 29th November 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchan- dise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	272,797	3,18,880 8 0	21,86,394 10	6,29,201 15 6	16,946 3 0	9,65,037 10 6	60,022½	88,610½	158,233½
Or per mile of railway ... ..	...	209 0 7	...	412 7 4	11 1 9	632 9 8	...	...	...
For previous 21 weeks of half- year	4,731,155	51,14,734 7 0	3,91,93,414 0	93,18,894 11 6	3,36,909 10 5	1,47,70,538 12 11	1,365,300	1,588,960½	2,954,260½
Total for 22 weeks	4,003,952	54,33,623 15 0	4,13,79,808 10	99,48,096 11 0	3,53,855 13 5	1,57,35,576 7 5	1,434,622½	1,677,571	3,112,403½
COMPARISON.									
Total for corresponding week of previous year	246,877	3,10,007 0 8	23,21,610 0	5,99,576 10 6	20,979 9 4	9,30,563 4 6	68,645	86,609	155,244
Per mile of railway correspond- ing week of previous year ... ..	...	203 3 6	...	393 0 7	13 12 0	610 0 1	...	...	...
Total to corresponding date of previous year	5,301,460½	58,81,716 15 3	4,62,91,909 30	1,03,09,032 10 6	3,65,362 12 5	1,66,37,112 6 2	1,444,292	1,766,230	3,210,522

*Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 23rd July 1883.*

RECEIPTS FOR WEEK ENDING 30TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 29TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 29TH NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	
1,525½	Rs. 9,30,563	Rs. 610	1,525½	Rs. 9,65,038	Rs. 633	1,525½	Rs. 2,86,83,864	Rs. 537	1,525½	Rs. 2,67,67,967	Rs. 601	Rs.	18,95,897

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 29th November 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	23,681	*12,529 11 0	48,455 20	3,145 6 0	38 4 0	15,713 5 0	1,943	793	2,736
Or per mile of railway ...	414	219 0 10	847 10	54 15 10	0 10 8	274 11 4	.....	.....	.....
For previous 21 weeks of half-year ...	265,111	1,55,264 1 0	7,24,026 30	47,741 7 0	655 9 0	2,03,691 1 0	29,414½	11,349	40,763½
Total for 22 weeks ...	288,792	1,67,793 12 0	7,72,482 10	50,886 13 0	723 13 0	2,19,404 6 0	31,357½	12,142	43,499½
COMPARISON.									
Total for corresponding week of previous year ...	11,218	5,927 5 0	34,294 0	2,382 2 0	55 4 0	8,364 11 0	1,820	574	2,394
Per mile of railway corresponding week of previous year ...	196	103 10 0	599 30	41 10 4	0 15 5	146 3 9	.....	.....	.....
Total to corresponding date of previous year ...	306,435½	1,71,434 6 11	9,07,245 20	50,188 6 0	1,552 1 0	2,23,174 13 11	34,302	16,122	50,424

* The increase due to Sonapore Fair and an eclipse of the moon.

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 30TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 29TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 29TH NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	8,365	146	57½	15,713	275	57½	3,37,171	168	57½	3,48,364	174	11,193	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 29th November 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	15,126	5,006 15 0	11,213 30	485 13 0	7 0 0	5,499 11 0	880	79	959
Or per mile of railway ...	.....	225 0 6	.....	21 13 4	0 5 0	247 2 10	.....	.....	.....
For previous 21 weeks of half-year ...	346,714	84,596 9 0	1,43,162 20	5,325 8 0	122 6 0	90,044 7 0	18,967	1,031	19,998
Total for 22 weeks ...	361,840	89,603 8 0	1,56,366 10	5,811 4 0	129 6 0	95,544 2 0	19,856	1,110	20,966
COMPARISON.									
Total for corresponding week of previous year ...	18,693	4,702 1 8	27,927 20	580 14 0	5 10 0	5,288 9 8	898	154	1,052
Per mile of railway corresponding week of previous year ...	.....	211 5 3	.....	26 1 8	0 4 1	237 11 0	.....	.....	.....
Total to corresponding date of previous year ...	392,176	95,887 12 5	2,23,868 10	5,920 6 0	130 1 9	1,01,638 4 2	20,197	1,675	21,872

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 30TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 29TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 29TH NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,289	238	22½	5,500	247	22½	1,84,576	237	22½	1,80,694	232	.....	2,263

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K.-D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 22nd November 1890, on 763 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-beat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2160,824	80,770 0 0	6,54,804 0	1,78,660 0 0	19,350 0 0	2,78,780 0 0	23,888	35,079	58,967
Or per mile of railway ...	211	106 0 0	858 0	234 0 0	12 0 0	342 0 0	.....	.....	.....
For previous 20 weeks of half-year ...	2,750,649	12,14,466 0 0	1,18,95,611 0	30,14,102 0 0	3,26,146 0 0	*45,54,714 0 0	430,499	665,966	1,096,465
Total for 21 weeks ...	2,911,473	12,95,236 0 0	1,25,50,415 0	31,92,762 0 0	3,45,496 0 0	48,33,494 0 0	454,387	701,045	1,155,432
COMPARISON.									
Total for corresponding week of previous year ...	127,531	67,782 0 0	6,58,665 0	1,85,248 0 0	18,590 0 0	2,71,620 0 0	22,245	35,881	57,236
Per mile of railway corresponding period of previous year ...	171	91 0 0	882 0	248 0 0	11 0 0	340 0 0	.....	.....	.....
Total to corresponding date of previous year ...	2,989,504	13,50,613 0 0	1,31,33,732 0	32,67,462 0 0	3,66,806 0 0	49,84,581 0 0	473,732	674,301	1,148,033

* Audited up to week ending 4th October 1890.

† Excluding steamer earnings.

a Due to Pingirapole mella at Sodepur.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 23RD NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 22ND NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 23RD NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 22ND NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	2,71,620	364	763	2,78,780	365	716	71,20,923	293	760	*72,16,152	279	96,129	.....

* Audited up to week ending 4th October 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 22nd November 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	27,467	12,220 0 0	35,912 0	3,040 0 0	1,100 0 0	16,860 0 0	3,718	1,992	5,710
Or per mile of railway ...	220	98 0 0	287 0	24 0 0	9 0 0	131 0 0	.....	.....	.....
For previous 20 weeks of half-year ...	499,355	1,63,222 0 0	8,27,897 0	67,178 0 0	3,387 0 0	*2,33,785 0 0	71,672	40,860	112,532
Total for 21 weeks ...	526,822	1,75,442 0 0	8,63,809 0	70,216 0 0	4,487 0 0	2,50,145 0 0	75,390	42,852	118,242
COMPARISON.									
Total for corresponding week of previous year ...	23,931	8,526 0 0	29,943 0	1,945 0 0	34 0 0	10,595 0 0	3,687	2,085	5,672
Per mile of railway corresponding period of previous year ...	191	68 0 0	239 0	16 0 0	.....	84 0 0	.....	.....	.....
Total to corresponding date of previous year ...	678,906	1,98,007 0 0	12,24,083 0	1,13,455 0 0	8,525 0 0	3,14,987 0 0	74,356	51,188	125,544

* Audited up to week ending 4th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 23RD NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 22ND NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 23RD NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 22ND NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	10,595	84	125	10,360	131	125	4,94,834	116	125	*4,15,594	98	.....	79,240

* Audited up to week ending 4th October 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 22nd November 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	18,804	6,730 0 0	35,733 0	3,590 0 0	100 0 0	10,420 0 0	2,700	983	3,683
Or per mile of railway ...	219	78 0 0	415 0	42 0 0	1 0 0	121 0 0	.....	.....	.....
For previous 20 weeks of half-year ...	296,782	96,453 0 0	3,98,673 0	37,055 0 0	5,341 0 0	*1,38,849 0 0	47,601	14,151	61,752
Total for 21 weeks ...	315,586	1,03,183 0 0	4,34,406 0	40,645 0 0	5,441 0 0	1,49,269 0 0	50,301	15,104	65,405
COMPARISON.									
Total for corresponding week of previous year ...	17,033	5,716 0 0	39,517 0	3,772 0 0	131 0 0	9,319 0 0	2,518	928	3,446
Per mile of railway corresponding period of previous year ...	198	66 0 0	459 0	44 0 0	2 0 0	112 0 0	.....	.....	.....
Total to corresponding date of previous year ...	318,150	1,02,199 0 0	5,08,723 0	42,709 0 0	4,270 0 0	1,49,178 0 0	52,287	19,647	71,934

* Audited up to week ending 4th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 23RD NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 22ND NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 23RD NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 22ND NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	9,619	112	86	10,420	121	86	2,23,457	76	86	*2,31,130	79	7,673	.....

* Audited up to week ending 4th October 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 22nd November 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,325	1,270 0 0	9,685 0	550 0 0	20 0 0	1,940 0 0	500	250	750
Or per mile of railway ...	118	50 0 0	355 0	20 0 0	1 0 0	71 0 0	.....	.....	.....
For previous 20 weeks of half-year ...	57,609	20,605 0 0	2,06,485 0	10,951 0 0	333 0 0	*31,889 0 0	10,752	6,554	17,306
Total for 21 weeks ...	60,934	21,975 0 0	2,16,170 0	11,501 0 0	353 0 0	33,829 0 0	11,252	6,804	18,056
COMPARISON.									
Total for corresponding week of previous year ...	3,032	1,168 0 0	8,342 0	566 0 0	319 0 0	2,053 0 0	586	340	926
Per mile of railway corresponding period of previous year ...	112	43 0 0	306 0	21 0 0	11 0 0	75 0 0	.....	.....	.....
Total to corresponding date of previous year ...	65,178	23,826 0 0	1,80,733 0	11,942 0 0	1,765 0 0	37,503 0 0	12,156	7,367	19,523

* Audited up to week ending 4th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 23RD NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 22ND NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 23RD NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 22ND NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	2,053	75	27½	1,940	71	27½	63,082	68	27½	*59,831	65	.....	3,251

* Audited up to week ending 4th October 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 22nd November 1890, on 699* miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	85,000	Rs. 34,760	Mds. 3,44,100	Rs. 54,400	Rs. 9,150	Rs. 98,510	12,640	14,704	(a) 27,344
Or per mile of railway ...	121'60	49'73	492'27	77'82	13'09	140'64	.....	.....	.....
For previous 19 weeks of half-year ...	1,430,620	5,58,029	52,93,954	6,66,500	1,35,457	13,60,076	241,012	236,527	477,539
Total for 20 weeks ...	1,515,620	5,92,789	56,38,054	7,20,900	1,44,607	14,58,386	253,622	251,301	504,923
COMPARISON.									
Audited figures.									
Total for corresponding week of previous year, 649 miles open...	86,936	34,041	3,34,628	38,106	11,648	83,795	12,113	13,044	24,157
Per mile of corresponding week of previous year ...	133'95	52'45	515'61	58'71	17'95	129'11	.....	.....	.....
Total to corresponding date of previous year ...	1,679,995	6,34,731	55,53,985	6,84,941	1,70,638	14,40,310	239,140	261,165	500,305

* Steam-boat earnings for the week Rs. 8,300.
 Ditto ditto to date .. 1,13,010.
 * Ajodhya bridge earnings for the week .. 870.
 Ditto ditto to date .. 6,310.

Train mileage figures :-
 a Bengal & N.W. Section. Tirhoot Section.
 Rs. Rs.
 Coaching ... 6,100 6,540
 Goods ... 7,280 7,424
 Total ... 13,380 13,964

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

RECEIPTS FOR WEEK ENDING 22ND NOVEMBER 1890.			RECEIPTS FOR WEEK ENDING 23RD NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 22ND NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 23RD NOVEMBER 1889.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
699	98,310	140'54	649	83,795	129'11	675	27,82,066	122'77	649	27,55,963	125'95	26,103	.....

* Due to opening of Kanwa Ghat Extension from 14th November 1890.

N.B.—Earnings of B. and N.W. Section.

Earnings of Tirhoot Section.

Week ended 22-11-90. Week ended 23-11-89.

Week ended 22-11-90. Week ended 23-11-89.

	Rs.	Rs.	Rs.	Rs.
Coaching	15,940	16,423	18,820	17,618
Goods	21,530	15,256	32,870	22,850
Other earnings	5,450	3,719	3,700	7,929
Total	42,920	35,398	55,390	48,397



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, DECEMBER 17, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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ERRATUM.

The 12th December, 1890.—At page 2265, line 1, to the Supplement to the Calcutta Gazette of the 12th November, 1890, for Rs. 12,87,625 read 12,87,625.

P. NOLAN,

Secretary to the Govt. of Bengal.

Abstract of the Proceedings of the Council of the Lieutenant-Governor of Bengal, assembled for the purpose of making Laws and Regulations under the provisions of the Act of Parliament 24 and 25 Vic., Cap. 67.

THE Council met at the Council Chamber on Saturday, the 13th December, 1890.

Present:

THE HON'BLE SIR STEUART COLVIN BAYLEY, K.C.S.I., C.I.E., Lieutenant-Governor of Bengal, *presiding.*

THE HON'BLE SIR CHARLES PAUL, K.C.I.E., *Advocate-General.*

THE HON'BLE H. J. S. COTTON.

THE HON'BLE P. NOLAN.

THE HON'BLE T. T. ALLEN.

THE HON'BLE SIR HENRY HARRISON, Kt.

THE HON'BLE SIR ALFRED CROFT, K.C.I.E.

THE HON'BLE DR. MAHENDRA LAL SIRCAR, C.I.E.

THE HON'BLE C. H. MOORE.

THE HON'BLE SHAHZADA MAHOMMED FURROKH SHAH.

THE HON'BLE DR. RASH BEHARI GHOSE.

THE HON'BLE RAJA RAMESHWAR SING BAHADUR.

THE HON'BLE A. H. WALLIS.

NEW MEMBERS.

The HON'BLE MESSRS. COTTON and WALLIS took their seats in Council.

COURSE OF LEGISLATION.

HIS HONOUR the PRESIDENT said :—" Gentlemen, I am afraid you will consider that I have called you here to-day rather under false pretences when the ostensible cause is, that I am going to make a statement regarding the course of legislation during the Session. But, as a matter of fact, the statement that I have to make is, regarding the absence of any legislative business.

" There is on the notice paper a motion in regard to a Bill to repeal certain obsolete enactments. The Government of India in their Legislative Council, in the words of Sir Andrew Scoble, were clearing away dead matter from the Statute Book, and they desired that a similar course should be taken by us in regard to the Bengal Statutes. The Hon'ble Mr. Allen has in hand and will move to-day for leave to introduce a Bill for that purpose, which will be proceeded with somewhat later after careful examination.

" Then there is another Bill which is on the anvil and which has been printed and is ready to be introduced. But, after some correspondence with the Secretary of State, we find that it will require certain alterations to be made, and it will probably take some little time. It is a Bill in connection with the amendment of the Court of Wards' Act.

" These are the only two Bills which I can say are at all ready to be laid before the Council at present.

" There is another Bill which has been printed and circulated and which some of the members may have seen in their capacity as members of the Associations consulted. It has reference to our Bengal Revenue Sale Law. It is a very important Bill and will require careful consideration. But the reports of all the bodies which have been consulted have not yet been received, and it will probably be some months before it will be ready to be laid before the Council.

" Beyond these Bills I have no work in hand that will require your attention. I am glad, however, of the opportunity of calling you together before my departure; first, that I might have the pleasure of introducing you to my successor, Sir Charles Elliott, and secondly, that I might express, before I go, my gratitude for the assistance you have given me, and my extreme satisfaction at the way in which business has always been conducted in this Council. It is a matter of great regret to me that I am leaving you, and that I shall have nothing more to say in this Council. The Presidency hereafter will devolve on my friend Sir Charles Elliott, and I am quite sure you will give him all the loyal assistance which you have given me in this Council."

OBSOLETE ENACTMENTS BILL.

The HON'BLE MR. ALLEN moved for leave to introduce a Bill to repeal certain obsolete enactments and to amend certain other enactments.

He said :—" The Bill in question is a purely technical one, and I therefore can promise the Council that it will be without a particle of interest for any single member of it, unless it be the hon'ble jurist opposite, who may take the opportunity of favouring us with one of his exhaustive discourses on abstract principles. In fact, however, the Bill is nothing more or less than a waste-paper basket, in which it is desirable to collect some of the litter which still encumbers the Bengal Code. I have already seen the provisions of the Bill, and I do not think it can be better described than the waste-paper basket of the Bengal Council."

The Motion was put and agreed to.

The Council was adjourned for one month.

CALCUTTA ;

The 15th December, 1890.

C. H. REILY,

Assistant Secretary to the Govt. of Bengal,
Legislative Department.

SONTHAL SETTLEMENTS.

REVENUE DEPARTMENT—LAND REVENUE.

Calcutta, the 15th December 1890.

RESOLUTION.

READ—

A letter No. 1899R, dated 31st October, 1890, from the Commissioner of the Bhagulpore Division and Sonthal Pergunnahs, with enclosures.

A letter No. 1680T—A, dated 6th December, 1890, from the Director of the Department of Land Records and Agriculture, Bengal, with enclosure.

A note on the proposed rules for settlement of rent in the Sonthal Pergunnahs by Mr. W. Mating Grant, a proprietor of land in that district.

When the settlement of certain private estates was initiated under the Sonthal Pergunnahs Settlement Regulation of 1872, it was originally assumed by the local officers that the rent could be most equitably fixed by applying the recorded village rates to the areas ascertained by the new measurement, but as the work proceeded this course was found to be impracticable. The Deputy Commissioner reported that an assessment framed on this principle would lead to excessive enhancements, injurious to the interests of the landlord as well as to those of the tenants. It, moreover, appeared that these rates had not been strictly enforced at the last settlement; that the measurements then made were very rough; and that the assessment of all newly cultivated land at full rates could not be reconciled with section 21 of the Regulation, which requires the Settlement Officer in any case in which the tenant has reclaimed waste to regard that fact in settling the rents. In view of these considerations, the Commissioner has requested Government to issue instructions for the guidance of Settlement Officers in fixing rents, and the following draft rules have been framed. They are now published for general criticism, and, if no objection to them is received, will be confirmed after the interval of one month.

The first of the draft rules merely draws attention to the fact, which in the correspondence has sometimes been overlooked, that the law requires the Settlement Officer to fix a fair rent in every case, either accepting the existing rent as having that character, or altering it to meet the circumstances as ascertained by the survey. The second is framed on the principle that existing rents must, in the absence of an alteration in area shown by the settlement itself, be assumed to be fair and equitable till the contrary is proved. Rule 3 has been prepared in communication with the local officers to indicate the margin of error which should ordinarily be allowed in view of the rough measurements made at the original settlement. It is not applicable where the particular lands formerly settled are demarcated or can be identified with certainty, so that the new cultivation is clearly distinguishable. Rule 4 embodies the existing practice for the assessment of new lands, which is in conformity with section 21 of the Regulation. The case of villages not previously measured is provided for in the fifth rule. Rule 6 embodies the principle accepted by the Bengal Tenancy Act for giving the landlord the benefit of improvements made by him. The limit imposed on enhancement by the seventh rule is considered necessary to prevent an excessive increase of rent in a district such as the Sonthal Pergunnahs.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

RULES.

1. A fair rent shall be settled FOR EVERY holding.

Method of settling fair rents.

2. Where the Settlement Officer has reason to believe that area rates were fixed at the last settlement, and that rentals were determined by the application of these rates to areas of holdings, ascertained by measurement, the rates then

fixed and rentals then ascertained shall ordinarily be held to be fair for the areas at that time in the raiyat's possession.

3. In determining what area was in each raiyat's possession at the time of the last settlement, the Settlement Officer shall have regard to the inaccuracies in the survey and in classification of soils then made, and to differences in areas which are due to the difference between the methods of survey then and that now adopted, and he shall allow a reasonable percentage on the old recorded areas (not ordinarily less than 15 or more than 25), which shall be determined by the Commissioner for each village or class of villages, on the grounds above specified. The difference between the areas of holdings as shown by the present and the former measurement, after the aforesaid allowance is made, shall be presumed until the contrary is proved to be "newly cultivated."
4. "Newly cultivated lands," as defined in the last preceding rule, shall be assessed at half the rates current in the village for lands of the class to which they belong.

Settlement of rents where rents were not based on application of rates to areas of holdings ascertained by survey at the last settlement.

5. Where the rentals of holdings were not determined by the application of rates to areas ascertained by measurement at the last settlement, the Settlement Officer shall now settle fair and equitable area rates, having regard to the considerations mentioned in sections 20 and 21 of Regulation III of 1872, and shall determine the rent of every holding by the application of these rates to the area of holdings resulting from survey.

General.

6. When the productive power of the land has been increased by an improvement effected by the landlord during the currency of the present settlement, the rent may be increased on that account, and in such cases the Settlement Officer in determining the amount of the enhancement shall have regard to—
 - (i) the increase in the productive powers of the land caused, or likely to be caused, by the improvement,
 - (ii) the cost of the improvement,
 - (iii) the cost of the cultivation required for utilizing the improvement, and
 - (iv) the existing rent and the ability of the land to bear a higher rent.
7. The aggregate full rental of any village shall not exceed by more than 50 per cent. the rental fixed at the last settlement, and the increase in rental up to this maximum may, in the discretion of the Settlement Officer, be made progressive.
8. The rents now settled shall remain unchanged for 15 years.
9. An appeal shall lie from orders of the Settlement Officer under these rules to the Deputy Commissioner, and when the Deputy Commissioner's order differs from that of the Settlement Officer, an appeal shall lie from the Deputy Commissioner to the Commissioner, provided that an appeal on questions regarding rates shall lie in every case from the Deputy Commissioner to the Commissioner.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 13th December 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
BURDWAN DIV.	1 Burdwan Dec. 13, '90	Nil	Weather—seasonable and cloudy. Harvesting of <i>amun</i> going on. Sugarcane doing well. Locusts appeared on the 7th in parts of the district and did some injury to <i>rubbi</i> crops. Prices of common rice:— Srs. Sudder ... 18½ Culina ... 17 Cutwa ... 18½ Ranigunge ... 16½ } per rupee.
	2 Bankura „ 13, '90	Nil	Weather—cloudy and cold. <i>Amun</i> harvest continues. <i>Til</i> is being reaped. Injury to <i>rubbi</i> crops by locusts considered as a whole is not much, but these have been completely destroyed where they alighted. Sugarcane is thriving. Common rice is selling at 20 seers per rupee at Sudder and 21 seers at Bishenpore.
	3 Birbhum „ 13, '90	Nil	Sky seems to threaten rain. Crops are being fast gathered in. Price of common rice ranges from 18 to 24 seers per rupee.
	4 Midnapur „ 13, '90	Nil	Weather—seasonable, but a little warm at noon. Paddy crop is being harvested. <i>Rubbi</i> and indigo crops doing well. Prices of common rice:— Srs. Sudder ... 18 Tumlook ... 16 Contai ... 18 Ghatal ... 16 } per rupee.
	5 Hooghly „ 13, '90	Nil	Weather—cloudy and warm. <i>Amun</i> is being harvested with prospect of good outturn. <i>Rubbi</i> sowings almost completed. Locusts left the district without doing any damage. Prices of common rice:— Srs. Sudder ... 14 Serampore ... 14 Jehanabad ... 16½ } per rupee.
	6 Howrah „ 13, '90	Nil	Weather—seasonable. <i>Amun</i> crop is being reaped. Prospects of harvest good. Price of common rice about 15 seers per rupee.
<i>Central Districts.</i>			
PRESIDENCY DIV.	7 24-Parghs. Dec. 16, '90	Nil	Weather—seasonable. Prospects of all crops favourable. Harvesting of <i>amun</i> in progress. Sowing of winter crops nearly finished. Prices stationary.
	8 Naddea „ 13, '90	Nil	Weather—a little cloudy. Harvesting of <i>amun</i> rice nearly finished. Winter crops doing well.
	9 Khoolna „ 13, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> going on. Prospects favourable except in flooded area.
	10 Jessore „ 13, '90	Nil	Weather—cool and cloudy in the latter part of the week. <i>Amun</i> is being harvested. Sowing of winter crops still going on in places. Locusts appeared in all subdivisions and did some injury to the standing crops. Price of rice stationary.
	11 Moorsshedabad „ 13, '90	Nil	Weather—getting cool. <i>Amun</i> is being harvested. Prospects of <i>rubbi</i> favourable.
RAJSHAHY DIV.	12 Dinagepur „ 13, '90	Nil	Weather—seasonable. Prospects of crops continue good. Price of rice both at Sudder and Thakurgaon 18 seers per rupee.
	13 Rajshahye „ 13, '90	Nil	Weather—seasonable. Rice is being harvested with a fair outturn. Prospects of other crops good.
	14 Rangpur „ 13, '90	Nil	Weather—cloudy with morning fogs. <i>Amun</i> is being cut. Mustard is in flower. Prospects generally good.
	15 Bogra „ 13, '90	Nil	Weather—seasonable. State and prospects of crops good. Winter rice is being reaped, and sugarcane is being cut. Sowing of <i>rubbi</i> crops still going on. Common rice selling at 14½ seers per rupee.
	16 Pubna „ 13, '90	Nil	Weather—seasonable. Prospects of crops continue satisfactory. Harvesting of <i>amun</i> still continues. Prices slightly lower.
	17 Darjeeling „ 13, '90	Nil	Weather—cold and misty. Winter rice is still being harvested. Potatoes, mustard, and tobacco doing well. Prospects good.
	18 Jalpigoree „ 13, '90	Nil	Weather—seasonable and cloudy at times. Harvesting of <i>haimanti</i> paddy in progress. Prospects of mustard and tobacco good. Common rice selling at 14 seers per rupee.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—concluded.			
Eastern Districts.			
DACCA DIV.	19 Dacca Dec. 13, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> going on. Mustard, <i>mung</i> , <i>mas. kalai</i> , and <i>khesari</i> thriving. Common rice sold at from 14 to 18 seers per rupee.
	20 Furreedpur „ 13, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> paddy continues. State of winter crops fair. Common rice selling at from 12 to 16 seers per rupee.
	21 Backergunge „ 13, '90	Nil	Weather—cool with foggy mornings. Prospects of crops good. Harvesting of <i>amun</i> going on. Common rice selling at from 14 to 15 seers per rupee.
	22 Mymensingh „ 13, '90	Nil	Weather—cold. Harvesting of <i>amun</i> paddy progressing; outturn expected to be 18 annas. Coarse rice sells at 16½ seers per rupee.
CHITTAGONG DIV.	23 Chittagong „ 16, '90	0.33	Weather—seasonable. Cultivation of vegetable crop and harvesting of early winter rice nearly over. State and prospects of <i>amun</i> very good. Prices unchanged.
	24 Noakholly „ 13, '90	Nil	Weather—seasonable. <i>Amun</i> crop is being harvested. <i>Rubbi</i> crops progressing. Price of rice stationary.
	25 Tipperah „ 13, '90	Nil	Weather—cold and clear. <i>Amun</i> rice is being cut. Cold-weather crops prospering.
	26 Chittagong Hill Tracts. „ 11, '90	Nil	Weather—cold with foggy mornings throughout the week. Cloudy to-day (11th). Gathering of cotton continues. Harvesting of late rice crop going on. Mustard in flower. Tobacco, chillies, and other cold-weather crops progressing. Common rice is being sold at 11 seers 6½ chittacks per rupee.
BEHAR.			
PATNA DIV.	27 Patna „ 13, '90	Nil	Weather—cold. Harvesting of paddy and <i>jowar</i> going on. <i>Rubbi</i> crops look flourishing. A few showers of rain will be beneficial to them. Prospects of poppy continue good. Prices of food-grains show a tendency to fall.
	28 Gya „ 13, '90	Nil	Weather—cold. Paddy harvest going on. Prospects of <i>rubbi</i> and poppy favourable. Prices of food-grains low.
	29 Shahabad „ 13, '90	Nil	Weather—cool with light west winds. Paddy still being harvested. Prospects of <i>rubbi</i> good. Prices stationary.
	30 Durbhunga „ 13, '90	Nil	Weather—cool with light west winds. Harvesting of paddy in progress; outturn in Madhubani subdivision estimated at 14 annas. Prospects of poppy and <i>rubbi</i> very favourable. Common rice selling at from 14 to 18 seers per rupee.
	31 Mozufferpur „ 13, '90	Nil	Weather—seasonable; cold. Prospects of all standing crops continue good. Harvesting of rice going on. Weather very favourable for poppy.
	32 Sarun „ 13, '90	Nil	Weather—seasonable. Harvesting of paddy in full swing. Prospects of <i>rubbi</i> and poppy continue excellent. Prices falling.
BHAGULPORE DIV.	33 Chumparun „ 13, '90	Nil	Cold has increased with west wind which prevailed in the middle of the week. <i>Rubbi</i> and poppy sowings almost over; the latter crop is being irrigated in some places. Harvesting of paddy is progressing.
	34 Monghyr „ 13, '90	Nil	Weather—seasonable; getting colder with light west wind. Harvesting of winter rice going on. Prospects of <i>rubbi</i> and poppy continue favourable.
	35 Bhagulpore „ 13, '90	Nil	Weather—seasonable. Harvesting of rice crop progressing fairly. Prospects of <i>rubbi</i> good.
	36 Purneah „ 13, '90	Nil	Weather—much colder now. <i>Aghani</i> still being harvested. <i>Rubbi</i> crops doing well.
	37 Maldah „ 13, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> paddy continues. <i>Kalai</i> is being gathered in some places. State of all other standing crops favourable. <i>Boro</i> seedlings are thriving. Prices of common rice falling owing to the new crop finding its way in the market.
	38 Sonthal Pergas. „ 13, '90	Nil	Weather—cool with west wind. Harvesting of rice in full progress with good outturn. <i>Rubbi</i> promising well.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIV.	39 Cuttack Dec. 13, '90	Nil	Weather—dry and cool. Harvesting of <i>guru sarad</i> has just commenced in the Banki subdivision. <i>Rubbi</i> doing well.
	40 Pooree „ 11, '90	Nil	Weather—hot. <i>Sarad</i> crop is being harvested. <i>Dalua</i> crop is being sown. <i>Rubbi</i> doing well. Price of common rice from 21 to 23 seers per rupee.
	41 Balasore „ 13, '90	Nil	Weather—warm for the time of year. Harvesting of winter rice drawing to a close. <i>Biri</i> , <i>mung</i> , and mustard promise well.
CHOTA NAGPORE.			
South-West Frontier Agency.			
CHOTA NAGPORE DIV.	42 Hazaribagh Dec. 13, '90	Nil	Weather—cold and occasionally cloudy. Harvesting of paddy continues; a 16-anna crop expected almost everywhere in the district. Prospects of <i>rubbi</i> and poppy crops continue favourable. Prices stationary.
	43 Lohardugga „ 13, '90	Nil	Weather—a little cloudy. Harvesting of winter rice continues. Rain still badly wanted for <i>rubbi</i> crops.
	44 Singhbhum „ 13, '90	0.20	Weather—warm for the season of the year. Slight rain on the 11th. Harvesting of the paddy crop continues with good outturn. Winter crops are in excellent condition. Prices stationary.
	45 Manbhum „ 13, '90	Nil	Weather—seasonable, but mornings are generally cloudy. Harvesting of winter rice continues with excellent results. Prospects of <i>rubbi</i> crops good. Very slight damage done to <i>rubbi</i> crops by locusts. Coarse rice selling at from 20 to 26 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 16th December, 1890.P. NOLAN,
Secy. to the Govt. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

NAMES OF MARKS.	STOCK IN HAND AS COMPILED ON—												
	1st week of Dec. 1889.	1st week of Jan. 1890.	1st week of Feb. 1890.	1st week of Mar. 1890.	1st week of April 1890.	1st week of May 1890.	1st week of June 1890.	1st week of July 1890.	1st week of August 1890.	1st week of Sept. 1890.	1st week of Oct. 1890.	1st week of Nov. 1890.	1st week of Dec. 1890.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Balighatta	2,96,500	3,00,000	5,48,000	9,31,100	15,22,500	10,94,000	9,85,500	7,54,000	6,42,000	5,41,000	4,10,000	3,58,500	3,14,000
Ooltadanga	55,400	63,400	83,900	1,02,500	1,12,500	86,800	81,700	74,900	67,800	73,500	65,800	70,400	61,200
Chitpore, Golabaree, Coomer- tooly, Hatkhola, and Culp Ghat.	5,86,000	6,00,400	5,98,000	5,83,800	5,91,600	5,37,800	4,79,200	4,96,100	5,10,500	6,07,500	6,45,100	6,29,700	5,70,250
Patnuriachalia, Posta, and Jorabagan.	3,000	4,000	5,000	4,000	3,000	4,000	3,500	4,000	3,000	4,000	5,000	4,700	5,000
Tallygunge, Chittah, Kidderpore, and Moonshigunge.	68,100	82,750	98,100	1,21,500	1,26,550	1,32,900	1,19,450	1,04,700	96,000	94,200	1,09,200	1,15,700	96,650
21 Minor Bazars (estimated) ...	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000
Other retail shops, 3,129 in number (estimated).	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000
Roidyabatty, Newabgunge, Bhuddeswar, and Chander- nagore.	11,080	28,435	19,608	33,469	31,225	19,369	22,762	45,879	55,887	45,481	47,075	31,012	35,750
Total ...	15,13,080	15,68,975	18,43,506	22,66,969	28,77,375	23,64,669	21,83,112	19,69,579	18,65,187	18,55,431	17,67,175	17,03,012	15,75,850
On Railway premises on both sides of the river.	6,677 (on 3rd Dec. 1889.)	28,007 (on 3rd Jan. 1890.)	26,935 (on 3rd Feb. 1890.)	47,988 (on 3rd Mar. 1890.)	24,996 (on 3rd Apr. 1890.)	24,633 (on 3rd May 1890.)	11,927 (on 3rd June 1890.)	15,533 (on 3rd July 1890.)	2,371 (on 3rd August 1890.)	18,884 (on 3rd Sept. 1890.)	11,155 (on 3rd October 1890.)	16,544 (on 3rd Nov. 1890.)	23,575 (on 3rd Dec. 1890.)
On boats un- loaded ...	20,650 (1st to 3rd Dec. 1889.)	61,641 (2nd to 4th Jan. 1890.)	68,796 (1st to 3rd Feb. 1890.)	56,599 (1st to 3rd Mar. 1890.)	37,745 (1st to 3rd Apr. 1890.)	30,197 (1st to 3rd May 1890.)	24,756 (1st to 3rd June 1890.)	23,361 (1st to 3rd July 1890.)	54,773 (1st to 3rd August 1890.)	27,167 (1st to 3rd Sept. 1890.)	32,365 (1st to 3rd October 1890.)	25,445 (1st to 3rd Nov. 1890.)	54,878 (1st to 3rd Dec. 1890.)
By Canal returns.	8,835 (1st to 3rd Dec. 1889.)	1,31,815 (2nd to 4th Jan. 1890.)	2,42,044 (1st to 3rd Feb. 1890.)	1,34,547 (1st to 3rd Mar. 1890.)	68,619 (1st to 3rd Apr. 1890.)	23,975 (1st to 3rd May 1890.)	23,957 (1st to 3rd June 1890.)	22,388 (1st to 3rd July 1890.)	18,546 (1st to 3rd August 1890.)	32,466 (1st to 3rd Sept. 1890.)	23,494 (1st to 3rd October 1890.)	30,008 (1st to 3rd Nov. 1890.)	25,941 (1st to 3rd Dec. 1890.)
Grand total of Stocks ...	15,49,242	17,00,438	21,81,281	25,05,503	29,08,735	24,43,474	22,45,752	20,30,851	19,40,882	19,28,993	18,34,189	17,74,009	16,60,245
Probable stock available for exportation by sea.	6 lakhs	7½ lakhs	11½ lakhs	14½ lakhs	19½ lakhs	14 lakhs	12 lakhs	9½ lakhs	9 lakhs	8½ lakhs	7½ lakhs	7½ lakhs	6 lakhs

STATISTICAL DEPARTMENT,
The 13th December, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from
7th to 13th December 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
Dec.	7th	133.3	9.2	29.965	68.2	80.1	22.3	57.8	62.5	0.493	58.6	74	Calm and variable ..	25	Nil	Clear, Δ .
"	8th	132.8	9.0	987	68.8	80.8	22.5	58.3	63.7	524	60.2	76	W and calm ...	30	"	Chiefly clear, Δ , \equiv .
"	9th	133.9	9.3	972	69.9	81.2	22.3	58.9	65.4	570	62.6	79	Calm and variable...	19	"	Chiefly clear, Δ .
"	10th	143.4	8.7	927	73.2	83.5	18.6	64.9	69.4	669	67.3	83	SW, calm and variable.	34	"	Chiefly clear, Δ , \equiv .
"	11th	131.0	9.0	920	73.1	80.8	14.5	66.3	67.8	613	64.7	77	NNE, calm and variable.	28	"	Partially cloudy, Δ , \equiv .
"	12th	131.1	8.9	974	70.0	78.2	15.9	62.3	63.4	498	58.8	69	ENE and calm ...	27	"	Chiefly clear, Δ .
"	13th	133.2	7.0	945	66.7	78.5	19.8	58.7	63.1	531	60.6	81	Calm and variable ...	35	0.03	Partially cloudy, Δ , d.

The mean pressure of the seven days ... 29.956
 The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 30.024

Hours.
 The total number of hours of bright sunshine ... 61.1
 The maximum possible number of hours of sunshine ... 75.2

The mean temperature of the seven days ... 70.0
 The average temperature of the corresponding period for 24 years, S.-G.'s Office ... 68.4
 The extreme variation of temperature ... 25.7
 The maximum temperature ... 83.5

Miles.
 The highest velocity of the wind in one hour ... 7
 lbs.

The highest pressure of wind on one square foot ... ?
 %

The mean relative humidity ... 77
 The average relative humidity of the corresponding period for 24 years, S.-G.'s Office ... 71

Inches.
 The total fall of rain from 7th to 13th December 1890 ... 0.03
 The average fall of the corresponding period for 24 years, S.-G.'s Office ... 0.03
 The total fall from 1st January to 13th December 1890 ... 61.28
 The average fall of the corresponding period for 24 years, S.-G.'s Office ... 65.22

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

Δ , dew; \equiv , fog; o, overcast; d, drizzling rain.

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 15th December 1890.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.			STATION OBSERVATIONS.													
			AIR PRESSURE.			WIND.		TEMPERATURE.								
			Mean barometric height, S. A. M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean S. A. M. temperature.
ORIGINAL.	Pooree	Pooree	30°010	30°023	—	N	195	84°7	12th Dec.	65°6	6 & 7 Dec.	83°0	68°7	75°9	—	71°1
	Gopalpore	Gopalpore	30°012	30°034	—009	NNW	216	85°2	10th	65°4	7th	81°0	68°0	75°5	+4°6	75°2
	False Point	False Point	30°007	30°029	—051	NNW	151	84°9	12th	58°5	6th	83°2	63°0	73°1	+3°5	70°2
	Cuttack	Cuttack	29°939	30°043	—015	Calm	20	89°4	10th	60°8	6th	77°8	64°4	75°6	+5°3	70°4
	Balasore	Balasore	29°983	30°044	—022	South-Westerly.	47	87°4	11th	58°6	6 & 7	82°1	62°1	73°3	+7°0	68°0
SOUTH-WEST BENGAL.	South-West Midnapore	Saugor Island	30°005	30°032	—025	Westerly	209	81°2	12th	61°9	6th	86°7	72°2	74°2	+4°2	71°4
	Midnapore	Midnapore	29°875	30°033	—038	N	75	88°3	11th	56°2	6th	83°2	73°2	75°8	+5°8	65°7
	24-Pergunnahs	Calcutta	30°005	30°028	—033	Calm	24	83°5	11th	56°8	6th	80°7	70°7	73°0	+3°0	67°9
	Howrah	Burdwan	29°942	30°047	—025	Variable	26	85°1	11th	57°4	7th	80°5	71°4	73°4	+3°4	63°7
	Hugli	Bankoora	29°702	30°021	—040	W & Calm	49	86°6	11th	58°2	8th	80°4	71°9	74°7	+4°7	64°8
	Beerbhoom	Raneegunge	29°700	30°050	—035	NW & WNW	31	83°3	11th	57°3	6th	81°1	59°3	70°2	+3°7	64°7
	West Burdwan	Berhampore	29°937	30°027	—039	W, WSW	33	82°1	11th	56°2	7th	79°5	53°2	68°8	+1°7	63°4
	Moorehadedabad	Krishnagur	29°978	30°029	—025	Variable	58	85°0	11th	53°0	6th	82°2	55°7	69°0	+2°1	65°4
	Nuddea	Jessore	29°994	30°029	—022	Calm	6	84°2	11th	56°5	6th	81°4	60°1	70°8	+2°3	68°5
	Khoolna	Chittagong	29°947	30°041	+005	Westerly	43	81°2	11th	55°9	6th	78°6	62°1	70°4	+1°1	64°2
EAST BENGAL.	Chittagong Hill Tracts	Demagiri	Observations not received.													
	Backergunge	Barrisal	30°010	30°033	—002	Calm	33	81°8	11th Dec.	57°1	6th	79°9	60°6	70°3	+2°8	67°3
	Noakholly	Noakholly	29°989	30°034	+007	Variable	126	82°0	12th	55°5	6 & 7	79°2	59°0	69°9	+2°3	63°3
	Furreedpore	Furreedpore	29°995	30°037	—001	Calm	23	82°0	11th	57°8	6th	75°3	50°6	67°5	+1°2	65°5
	Dacca	Dacca	29°993	30°017	—029	Variable	54	81°1	11th	58°3	7 & 12	79°5	60°4	69°9	+0°3	63°7
	Commillah	Commillah	29°999	30°036	+001	E	20	81°4	10th	55°0	6th	79°4	58°0	68°7	+1°7	60°6
	Mymensingh	Mymensingh	29°971	30°032	—005	ENE	49	79°5	11th	54°1	12th	76°5	58°1	67°3	+1°5	62°3
	Bogra	Bogra	29°931	29°998	—029	NE	33	79°3	11th	51°5	12th	77°4	56°0	66°7	+0°3	60°7
	Pubna	Serajunge	29°967	30°016	—026	South-Westerly.	17	81°0	11th	53°6	12th	78°7	56°4	67°6	+1°6	63°9
	Rajshahye	Rampore Beaulah.	29°945	30°018	—023	Variable	21	79°4	11th	53°7	12th	77°7	57°8	67°8	+2°9	64°1
NORTH BENGAL.	Maldah	Maldah	29°950	30°036	—	SW	75	80°0	11th	50°2	12th	78°5	55°5	67°0	—	63°1
	Dinazepore	Dinazepore	29°961	30°028	—040	Variable	?	79°1	11th	49°7	12th	77°2	56°2	66°2	+1°4	61°3
	Rungpore	Rungpore	29°908	30°040	—053	E	22	78°6	11th	49°8	12th	76°9	55°7	66°3	+1°5	60°8
	Julpigoree	Julpigoree	29°721	30°024	—046	?	46	70°4	9 & 11	53°1	11 & 12	75°3	55°8	65°4	+0°8	61°2
	Cooch Behar	Darjeeling Hill Tracts	22°965	—	—066	Calm	93	50°1	11th	33°8	11th	47°2	37°1	42°2	—2°5	40°7
	Purneah	Purneah	29°693	30°029	—041	Calm	52	78°7	11th	49°0	12th	75°9	54°0	64°9	+0°5	59°4
	North Bhagalpore	Mozufferpore	29°839	30°021	—	WSW	72	78°4	10 & 11	54°3	7th	76°7	55°6	66°4	—	59°2
	Durbhunga	Durbhunga	29°853	30°035	—055	WSW	68	78°9	11th	51°9	12th	76°8	56°3	66°6	+0°9	62°1
	Chumpran	Motihari	29°799	30°039	—030	Variable	132	78°2	10th	46°9	12th	76°8	51°8	64°4	+1°9	61°1
	Saran	Chupra	29°817	30°022	—040	Calm	69	80°2	11th	51°0	12th	77°6	56°2	67°0	+4°4	60°2
SOUTH BENGAL.	Shahabad	Dehree	—	—	—	—	—	82°3	9, 10, 11	55°0	12th	81°0	57°9	69°5	+6°1	65°2
	Buxar	Buxar	29°829	30°022	—039	S-Wly.	92	80°9	10th	50°9	12th	78°5	56°8	67°7	+4°2	62°0
	Arrah	Arrah	29°829	30°022	—039	S-Wly.	24	81°1	11th	50°0	12th	78°9	55°4	67°2	+4°4	61°4
	Gya	Gya	29°654	30°054	—044	S	110	82°4	10th	53°8	12th	80°6	58°0	69°3	+5°5	63°1
	Patna	Bankipore	29°847	30°041	—059	Variable	67	79°7	11th	50°4	12th	77°4	56°3	66°9	+2°8	63°1
	South Bhagalpore	Bhagalpore	29°868	30°036	—034	Calm	22	81°1	11th	53°0	12th	78°1	56°5	67°3	+3°0	62°3
	Monghyr	Doomka	29°515	30°042	—029	Calm	35	81°6	11th	54°1	7th	79°9	53°1	68°1	+4°2	62°4
	Sonthal Pergunnah	Hazaribagh	27°974	30°056	—034	WNW	205	79°3	9 & 10	52°5	12th	77°2	56°4	66°8	+5°2	63°7
	Lohardugga	Ranchee	27°845	30°057	—027	Northerly	131	80°0	10th	51°4	12th	77°5	56°0	66°8	+6°3	61°6
	Manikhoon	Chyebassa	29°263	30°057	—006	Calm	23	88°2	11th	54°5	6th	84°7	59°5	72°1	+7°2	67°3
CHUTIA NAGPUR.	Singbhoom	Chyebassa	29°263	30°057	—006	Calm	23	88°2	11th	54°5	6th	84°7	59°5	72°1	+7°2	67°3

* Mean of six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years. The humidity of the atmosphere is expressed at percentage, saturated air being represented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numbers are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional stations for the period in question during the past year. Stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least one-tenth of an inch fell.

of the week ending Friday, the 12th of December 1890.

DISTRICT OBSERVATIONS.															Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.
No.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.												
			Mean for district.	Normal mean.	Since 1st of Month.			Since 15th May 1890.			Average number of rainy days.	Normal number of rainy days.					
					Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.							
73	0.4	Nil	Nil	0.45	Nil	0.60	-0.60	65.77	55.30	+10.47	0.0	0.4	Pooree	Pooree	ORISSA.		
74	0.5	Nil											Gopalpore				
75	1.6	Nil											False Point				
76	1.3	0.04	Nil	0.27	Nil	0.38	-0.38	63.64	51.35	+12.29	0.0	0.3	Cuttack	Cuttack	ORISSA.		
77	0	Nil	0.12	0.12	0.12	0.19	-0.07	61.58	52.83	+8.75	0.5	0.2	Balasore	Balasore			
78	2.6	0.07	0.02	0.13	0.02	0.28	-0.26	66.31	61.89	+4.42	0.3	0.2	Saukor Island	South-West Midnapore			
79	2.0	Nil	Nil	0.07	Nil	0.17	-0.17	50.00	50.99	-0.99	0.0	0.1	Midnapore	Midnapore	SOUTH-WEST BENGAL.		
80	0.9	Nil	Nil	0.09	Nil	0.22	-0.22	55.16	51.09	+4.07	0.0	0.1	Calcutta	24-Pergunnahs			
81	1.6	Nil	Nil	0.04	Nil	0.13	-0.13	61.41	46.26	+15.15	0.0	0.1	Bardwan	Bardwan			
82	2.7	Nil	Nil	0.01	Nil	0.14	-0.14	52.02	52.07	-0.05	0.0	0.1	Bankoora	Bankoora	SOUTH-WEST BENGAL.		
83	0.7	Nil	Nil	0.03	Nil	0.10	-0.10	63.93	51.71	+12.22	0.0	0.1	Raneegunge	Barbhoom			
84	2.7	Nil	Nil	0.05	Nil	0.11	-0.11	60.55	50.01	+10.54	0.0	0.1	Barhampore	West Bardwan			
85	2.0	Nil	Nil	0.01	Nil	0.09	-0.09	55.03	48.72	+6.31	0.0	0.1	Krishnagar	Moorshedabad	SOUTH-WEST BENGAL.		
86	1.7	Nil	Nil	0.04	Nil	0.23	-0.23	53.51	52.23	+1.28	0.0	0.1	Jessore	Nuddea			
87	1.4	0.38	0.39	0.24	0.39	0.47	-0.08	119.45	113.05	+6.40	1.0	0.3	Chittagong	Jessore			
88			0.02	0.20	0.02	0.46	-0.44	73.34	80.26	-6.92	0.5	0.3	Damagiri	Khoulia	EAST BENGAL.		
89	0	Nil	0.14	0.12	0.14	0.37	-0.23	68.30	76.15	-7.85	0.3	0.2	Barrisal	Chittagong Hill Tracts			
90	0.9	0.02	Nil	0.42	Nil	0.77	-0.77	97.83	106.48	-8.65	0.0	0.3	Noakholly	Backergunge			
91	1.0	Nil	Nil	0.02	Nil	0.10	-0.10	43.42	54.97	-9.55	0.0	0.1	Farroodpore	Noakholly	EAST BENGAL.		
92	5.9	Nil	Nil	0.08	Nil	0.20	-0.20	58.19	60.04	-1.85	0.0	0.1	Dacca	Farroodpore			
93	2.0	Nil	0.08	0.15	0.08	0.34	-0.26	60.19	68.02	-7.83	0.3	0.2	Commillah	Dacca			
94	0.7	Nil	Nil	0.06	Nil	0.12	-0.12	75.85	68.52	+7.33	0.0	0.1	Mymensingh	Tipperah	NORTH BENGAL.		
95	0	Nil	Nil	0.04	Nil	0.13	-0.12	78.99	67.02	+11.97	0.0	0.1	Bogra	Mymensingh			
96	0.7	Nil	Nil	0.03	Nil	0.09	-0.09	54.95	52.89	+2.06	0.0	0.1	Serajpore	Bogra			
97	0.9	Nil	Nil	0.02	Nil	0.11	-0.11	75.86	52.92	+22.94	0.0	0.1	Rampore Beaulah	Fubna	NORTH BENGAL.		
98	0	Nil	Nil	0.01	Nil	0.07	-0.07	62.14	53.64	+8.50	0.0	0.1	Maldah	Rajshahye			
99	0.1	Nil	Nil	0.04	Nil	0.13	-0.13	81.74	56.38	+25.36	0.0	0.1	Dinapore	Maldah			
100	0.0	Nil	Nil	0.07	Nil	0.09	-0.09	106.61	73.27	+33.34	0.0	0.2	Rungpore	Dinapore	NORTH BENGAL.		
101	0	Nil	Nil	0.08	Nil	0.08	-0.08	154.51	109.68	+44.83	0.0	0.2	Julpigoree	Rungpore			
102	7.0	Nil	0.05	0.04	0.09	0.05	+0.04	165.75	119.93	+45.82	0.7	0.2	Darjeeling	Julpigoree			
103	0.3	Nil	Nil	0.06	Nil	0.06	-0.06	80.67	58.11	+22.56	0.0	0.1	Purneah	Cooch Behar	NORTH BENGAL.		
104	0.3	Nil	Nil	0.03	Nil	0.3	-0.03	52.57	42.79	+9.78	0.0	0.1	Mozufferpore	Darjeeling Hill Tracts			
105	0	Nil	Nil	0.05	Nil	0.03	-0.03	57.63	43.99	+13.64	0.0	0.1	Darbhunga	Purneah			
106	0	Nil	Nil	0.08	Nil	0.09	-0.09	68.47	45.98	+22.49	0.0	0.1	Motihari	Noria Bhagulpore	NORTH BENGAL.		
107	0.1	Nil	Nil	0.05	Nil	0.05	-0.05	53.69	41.91	+11.78	0.0	0.1	Chupra	Mozufferpore			
108	2.1	Nil											Deshree	Chupra			
109	1.1	Nil	Nil	0.12	Nil	0.13	-0.13	49.59	39.44	+10.15	0.0	0.2	Buxar	Shahabad	SOUTH BENGAL.		
110	1.0	Nil											Arrah				
111	2.3	Nil	Nil	0.03	Nil	0.03	-0.03	56.93	40.84	+16.09	0.0	0.1	Gya	Buxar			
112	0	Nil	Nil	0.03	Nil	0.03	-0.03	48.10	40.64	+7.46	0.0	0.1	Bankipore	Gya	SOUTH BENGAL.		
113	1.4	Nil	Nil	0.01	Nil	0.02	-0.02	52.23	42.55	+9.68	0.0	0.1	Bhagulpore	Patna			
114	0	Nil	Nil	0.01	Nil	0.06	-0.06	63.65	50.33	+13.32	0.0	0.1	Boomka	South Bhagulpore			
115	1.3	Nil	Nil	0.01	Nil	0.03	-0.03	49.45	49.3	+0.15	0.0	0.1	Hazaribagh	Boomka	CHUTTA NAGPUR.		
116	4.0	Nil	Nil	0.03	Nil	0.04	-0.04	47.01	47.45	-0.44	0.0	0.1	Ranchi	Hazaribagh			
117	2.6	0.20	0.20	0.10	0.20	0.19	+0.01	34.14	50.66	-16.52	1.0	0.2	Chyabassa	Lehardunga			

ten years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater. The average cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means are the numerical average of the rainfall returns received in the district, i.e., from total rainfall at the subdivisional stations.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 12th of December 1890

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 16th May 1890.	Average rain-fall from May date.
			Saturday, 6th December.	Sunday, 7th December.	Monday, 8th December.	Tuesday, 9th December.	Wednesday, 10th December.	Thursday, 11th December.	Friday, 12th December.	Number of rainy days.	Rainfall of week.				
ORISSA	Pooree	Pooree	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'64	69'07	56	
		Khurda	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'33	65'16	55	
		Banpur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'63	61'85	49	
		False Point	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'73	66'10	64	
		Gop	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	65'96	?	
		Satpara	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	45'07	?	
		Pipli	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	75'00	?	
	Cuttack	Jagatsingapore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'33	63'67	46	
		Banki	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'27	66'09	48	
		Cuttack	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'23	82'14	51	
		Kendrapara	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'44	58'15	52	
		Jajpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'62	53'15	52	
		Dharmasala	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	55'18	?	
		Salipore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	62'15	?	
	Balasore	Chandbali	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'40	52'06	52	
		Bhuddruk	Nil	Nil	Nil	Nil	Nil	Nil	0'38	1	0'38	0'38	0'19	55'23	51
		Sorah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'08	60'84	50	
		Balasore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'32	61'13	52	
		Jellapore	Nil	Nil	Nil	Nil	Nil	0'30	1	0'30	0'30	0'03	66'13	51	
		Baripodah	Nil	Nil	Nil	Nil	Nil	0'05	1	0'05	0'05	0'02	62'96	53	
SOUTH-WEST BENGAL.	Midnapore	Contai	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'33	67'73	60	
		Saugor Island	Nil	Nil	Nil	Nil	Nil	0'07	1	0'07	0'07	0'29	69'12	60	
		Tumlook	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'23	57'90	50	
		Midnapore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'09	47'47	48	
		Ghattal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'18	44'61	53	
		Kukrahaty	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	50'29	?	
	24 Pargunnas	Garbetta	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	46'23	?	
		Diamond Har-	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'22	62'13	57	
		bour	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	66'60	?	
		Canning Town	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'27	61'96	54	
		Alipore Jail	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'24	50'91	48	
		Barrackpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'22	56'34	51	
	Howrah	Dum-Dum	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'22	54'84	49	
		Baraset	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'21	58'67	54	
		Buseerhat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'25	51'34	50	
		Howrah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'22	59'37	51	
		Moheraka	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'22	54'30	49	
		(Ooloheriah)	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'22	52'05	46	
	Hooghly	Serampore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'12	51'57	54	
		Hooghly	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'18	54'31	43	
		Jehanabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'15	63'53	49	
	Burdwan	Culina	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'18	54'31	43	
		Burdwan	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'15	65'53	49	
		Cutwa	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'06	64'33	47	
		Raneegunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	60'54	48	
		Mankur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	48'21	?	
		Bankoora	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'12	57'76	51	
	Bankoora	Bankoora	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'12	56'06	51	
		Bishenpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'09	59'28	48	
		Mallara	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'23	40'06	56	
		Khutra	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	59'97	?	
		Indas	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	65'94	?	
		Kotalpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	55'11	?	
	Meerbhoom	Anda	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	63'75	?	
		Gangajalghati	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	53'29	?	
		Raipore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	62'74	?	
		Sonamukhi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	62'28	?	
		Bh. Soory	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'07	62'28	53	
		Hetampore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'11	60'51	53	
	Nuddea	Rampore Haul	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'15	72'56	59	
		Belpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	57'42	?	
		Murari	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	56'46	?	
		Kooshtea	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'15	55'46	46	
		Ranaghat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'02	61'66	47	
		Kishnaghat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'09	47'08	50	
	Khoolna	Chooodanga	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'10	58'86	47	
		Meherpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'08	62'09	57	
		Kooshtea	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'15	55'46	46	
		Satkhira	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'23	57'61	53	
		Bagirhat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'26	62'51	54	
		Khoolna	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'27	52'88	52	
	Jessore	Nakipur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	76'02	?	
		Rampal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	65'78	?	
		Narail	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'19	51'45	46	
		Jessore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'16	59'49	50	
		Jhenidah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'15	54'16	45	
		Magoorah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'12	43'44	41	
	Moorshedabad	Bongong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'25	46'05	41	
		Kandi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'14	64'89	57	
		Berhampore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'13	59'27	49	
		Lalbagh		Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'15	63'67	50
		Azimungunge		Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'09	58'37	48
		Jungpore		Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'09	51'83	47
EAST BENGAL	Chittagong	Laigola	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'60	65'35	57	
		Jagunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	61'91	?	
		Akhrigunj	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	61'91	?	
	Patkabari	Patkabari	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	61'91	?	
		Patkabari	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	61'91	?	
		Patkabari	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	61'91	?	
	Chittagong Hill Tracts.	Cox's Bazar	Nil	Nil	Nil	Nil	Nil	0'45	1	0'45	0'45	0'26	129'87	137	
		Chittagong	Nil	Nil	Nil	Nil	Nil	0'33	1	0'33	0'33	0'67	106'02	109	
		Kutubdia	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	115'85	?	
	Backergunge	Satkanya	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	81'41	?	
		Rangmati	Nil	Nil	Nil	Nil	Nil	0'04	1	0'04	0'04	0'63	68'06	58	
		Buna	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'39	77'71	75	
	Backergunge	Patuakhally	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'46	79'01	80	
		Pergepore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'28	62'91	60	
		Burisal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'29	65'76	61	
		Bnola	Nil	Nil	Nil	Nil	Nil	0'55	1	0'55	0'55	0'45	65'64	61	

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 12th of December 1890—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 6th December.	Sunday, 7th December.	Monday, 8th December.	Tuesday, 9th December.	Wednesday, 10th December.	Thursday, 11th December.	Friday, 12th December.	Number of rainy days.	Rainfall week.				
EAST BENGAL—contd.	Noakholly	Gournuddi	...	...	...	...	...	...	...	Nil	Nil	Nil	?	42'66	?
		Bauphai	...	...	...	...	...	...	...	Nil	Nil	Nil	?	73'26	?
		Noakholly	...	...	...	...	...	...	...	Nil	Nil	Nil	0'58	92'34	107'14
		Penury	...	...	...	...	...	...	...	Nil	Nil	Nil	0'85	103'40	105'70
	Furreadpore	Barishpore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	160'51	?
		Ramganj	...	...	...	...	...	...	...	Nil	Nil	Nil	?	65'28	?
		Madaripore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'14	41'31	35'15
	Dacca	Furreadpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'10	40'43	57'37
		Gosaindo	...	...	...	...	...	...	...	Nil	Nil	Nil	0'08	44'00	52'49
		Munshigunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0'28	57'78	60'84
		Dacca	...	...	...	...	...	...	...	Nil	Nil	Nil	0'15	54'58	58'15
	Hill Tipperah	Narainkunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0'20	41'71	61'40
		Manickgunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0'10	59'71	40'20
		Joydebpore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	60'26	?
		Agartola	...	...	...	...	...	...	...	Nil	Nil	Nil	0'36	...	61'00
		Comilla	...	...	...	...	...	...	...	Nil	Nil	Nil	0'45	67'24	75'37
		Chandpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'34	54'78	74'02
		Brahmunberia	...	...	...	...	...	0'30	...	1	0'30	0'30	0'23	54'94	61'17
		Ramchandrapore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	76'11	?
		Nasirnagar	...	...	...	...	...	...	...	Nil	Nil	Nil	?	34'81	?
		Daudkandi	...	...	...	...	...	...	...	Nil	Nil	Nil	?	30'44	?
	Mymensingh	Kasba	...	...	...	...	...	...	...	Nil	Nil	Nil	?	51'71	?
		Laksham	...	...	...	...	...	...	...	Nil	Nil	Nil	?	68'55	?
		Kishoregunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0'10	68'87	66'27
		Atia (Tangail)	...	...	...	...	...	...	...	Nil	Nil	Nil	0'08	56'62	54'94
		Mymensingh	...	...	...	...	...	...	...	Nil	Nil	Nil	0'10	78'05	73'50
		Jamulpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'17	79'16	64'66
		Netrokona	...	...	...	...	...	...	...	Nil	Nil	Nil	0'17	66'54	80'53
		Subornakhali	...	...	...	...	...	...	...	Nil	Nil	Nil	?	58'25	?
	NORTH BENGAL	Durgapore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	118'07	?
		Sherepore Town	...	...	...	...	...	...	...	Nil	Nil	Nil	?	37'41	?
		Deewanganj	...	...	...	...	...	...	...	Nil	Nil	Nil	?	72'90	?
		Pubna	...	...	...	...	...	...	...	Nil	Nil	Nil	0'09	46'08	53'45
	Bogra	Serajgunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0'08	63'81	52'27
		Sherepore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'14	77'86	57'91
		Nowkhilla	...	...	...	...	...	...	...	Nil	Nil	Nil	0'11	66'79	53'87
		Bogra	...	...	...	...	...	...	...	Nil	Nil	Nil	0'07	79'92	60'51
	Rajshahi	Panchbibi	...	...	...	...	...	...	...	Nil	Nil	Nil	0'16	91'46	55'41
		Beaulah	...	...	...	...	...	...	...	Nil	Nil	Nil	0'09	72'29	52'40
		Natore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'10	88'84	54'29
		Naogaon	...	...	...	...	...	...	...	Nil	Nil	Nil	0'14	66'15	52'13
	Maldah	Lalpor	...	...	...	...	...	...	...	Nil	Nil	Nil	?	52'38	?
		Manda	...	...	...	...	...	...	...	Nil	Nil	Nil	?	48'04	?
		Maldah	...	...	...	...	...	...	...	Nil	Nil	Nil	0'12	64'65	51'11
		Chanchal	...	...	...	...	...	...	...	Nil	Nil	Nil	0'02	59'62	56'15
	Dinapore	Gafol	...	...	...	...	...	...	...	Nil	Nil	Nil	?	84'40	?
		Stiganj	...	...	...	...	...	...	...	Nil	Nil	Nil	?	62'66	?
		Mohadebpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'13	67'94	56'08
		Churamon	...	...	...	...	...	...	...	Nil	Nil	Nil	0'12	80'28	52'10
	Rangpore	Raigunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0'12	92'75	57'70
		Dinapore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'06	85'80	63'60
		Raigungehat	...	...	...	...	...	...	...	Nil	Nil	Nil	0'22	81'01	52'24
		Thakooragan	...	...	...	...	...	...	...	Nil	Nil	Nil	?	107'04	?
	Jalpigoree	Banwanigun	...	...	...	...	...	...	...	Nil	Nil	Nil	0'10	123'00	62'19
		(Gyabanda)	...	...	...	...	...	...	...	Nil	Nil	Nil	0'06	96'56	74'12
		Rangpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'04	95'69	72'70
		Kurigram	...	...	...	...	...	...	...	Nil	Nil	Nil	0'16	111'25	84'03
	Cooch Behar	Bagdokra	...	...	...	...	...	...	...	Nil	Nil	Nil	?	97'52	?
		(Nilphamari)	...	...	...	...	...	...	...	Nil	Nil	Nil	?	...	...
		Ulupore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'06	156'26	116'79
		Jalpigoree		...	...	...	...	...	...	...	Nil	Nil	Nil	?	187'47	?
	Darjeeling Hill	Alipore Doar	...	...	...	...	...	...	...	Nil	Nil	Nil	?	146'30	?
		Fallacotta	...	...	...	...	...	...	...	Nil	Nil	Nil	?	115'70	?
		Debiganj	...	...	...	...	...	...	...	Nil	Nil	Nil	?	182'64	?
		Bhagatpore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	128'95	94'53
	North Bhagulpur	(Nayrakatta)	...	...	...	...	...	...	...	Nil	Nil	Nil	0'07	169'37	118'06
		Dinhat	...	...	...	...	...	...	...	Nil	Nil	Nil	0'14	146'35	103'06
		Cooch Behar	...	...	...	...	...	...	...	Nil	Nil	Nil	0'09	171'61	112'02
		Mickilgunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0'05	211'15	191'37
	Mozafferpore	Matabhanga	...	...	...	...	...	...	...	Nil	Nil	Nil	0'02	178'39	102'33
		Buxa	...	...	...	...	...	...	...	Nil	Nil	Nil	0'11	160'24	107'39
		Siliguri	...	...	...	...	...	...	...	Nil	Nil	Nil	?	123'00	77'29
		Darjeeling	...	...	...	...	...	...	...	Nil	Nil	Nil	?	193'09	?
	North Bihar	Kalsong	...	0'15	0'16	...	...	...	...	2	0'31	0'31	?	...	...
		Parneah	...	...	...	...	...	...	...	Nil	Nil	Nil	0'08	105'38	60'76
		Kissengunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0'05	83'78	63'21
		Arrah	...	...	...	...	...	...	...	Nil	Nil	Nil	0'12	89'36	61'11
	Darbhanga	Parneah	...	...	...	...	...	...	...	Nil	Nil	Nil	?	...	...
		Goudwara	...	...	...	...	...	...	...	Nil	Nil	Nil	?	100'45	?
		Balarampore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	63'09	?
		Hatiari	...	...	...	...	...	...	...	Nil	Nil	Nil	?	115'55	?
	Mozafferpore	Katiapanj	...	...	...	...	...	...	...	Nil	Nil	Nil	0'01	61'01	49'03
		Maddapore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'04	63'21	47'60
		Sooool	...	...	...	...	...	...	...	Nil	Nil	Nil	?	49'30	?
		Protoganj	...	...	...	...	...	...	...	Nil	Nil	Nil	?	...	...
	Mozafferpore	Tajpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'02	51'70	42'44
		Darbhanga	...	...	...	...	...	...	...	Nil	Nil	Nil	0'07	53'66	45'24
		Madhubani	...	...	...	...	...	...	...	Nil	Nil	Nil	0'01	62'61	43'24
		Kahera	...	...	...	...	...	...	...	Nil	Nil	Nil	?	52'53	?
	Mozafferpore	Kashera	...	...	...	...	...	...	...	Nil	Nil	Nil	?	39'42	?
		Shimari	...	...	...	...	...	...	...	Nil	Nil	Nil	0'03	52'96	43'01
		Mozafferpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'03	56'13	44'73
		Hailpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'04	45'60	41'32
	Mozafferpore	Para	...	...	...	...	...	...	...	Nil	Nil	Nil	?	76'81	?
		Mahua	...	...	...	...	...	...	...	Nil	Nil	Nil	?	44'79	?
		Siuhar	...	...	...	...	...	...	...	Nil	Nil	Nil	?	53'18	?
		Pupri	...	...	...	...	...	...	...	Nil	Nil	Nil	?	50'19	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 12th of December 1890—concl.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 6th December.	Sunday, 7th December.	Monday, 8th December.	Tuesday, 9th December.	Wednesday, 10th December.	Thursday, 11th December.	Friday, 12th December.	Number rainy days.	Rainfall week.				
NORTH BEHAR—concluded.	Champaran...	Motihari	...	...	...	...	...	...	...	NH	NH	NH	0.06	72.06	44.07
		Bettiah	...	...	...	...	...	...	...	NH	NH	NH	0.11	64.89	47.33
		Bagaha	...	...	...	...	...	...	...	NH	NH	NH	?	?	?
		Burhura	...	...	...	...	...	...	...	NH	NH	NH	?	58.36	?
SOUTH BEHAR	Saran	Gopalgunge	...	...	...	...	...	...	...	NH	NH	NH	0.06	52.67	42.31
		Sewen	...	...	...	...	...	...	...	NH	NH	NH	0.04	59.84	43.14
		Chuprah	...	...	...	...	...	...	...	NH	NH	NH	0.06	48.27	40.04
		Buxar	...	...	...	...	...	...	...	NH	NH	NH	0.05	52.47	41.63
	Shahabad	Dehree	...	...	...	...	...	...	...	NH	NH	NH	0.28	43.14	30.58
		Bhaboonah	...	...	...	...	...	...	...	NH	NH	NH	0.10	41.11	40.48
		Sasseran	...	...	...	...	...	...	...	NH	NH	NH	0.14	44.19	40.06
		Arrah	...	...	...	...	...	...	...	NH	NH	NH	0.05	66.96	39.23
	Gya	Mohanah	...	...	...	...	...	...	...	NH	NH	NH	?	36.07	?
		Aurangabad...	...	...	...	...	...	...	...	NH	NH	NH	0.06	59.49	41.97
		Gya	...	...	...	...	...	...	...	NH	NH	NH	0.01	60.04	41.84
		Nowadah	...	...	...	...	...	...	...	NH	NH	NH	0.01	54.84	39.18
	Patna	Jehanabad	...	...	...	...	...	...	...	NH	NH	NH	0.05	53.35	40.26
		Arwal	...	...	...	...	...	...	...	NH	NH	NH	?	55.43	?
		Daudnagar	...	...	...	...	...	...	...	NH	NH	NH	?	29.85	?
		Sherghati	...	...	...	...	...	...	...	NH	NH	NH	?	36.81	?
	Monghyr	Rajauli	...	...	...	...	...	...	...	NH	NH	NH	?	45.60	?
		Pakri Barawan	...	...	...	...	...	...	...	NH	NH	NH	?	64.24	?
		Patna	...	...	...	...	...	...	...	NH	NH	NH	0.04	50.02	41.99
		Dumra	...	...	...	...	...	...	...	NH	NH	NH	0.04	52.13	40.84
CHUTTA NAG-PUR.	South Bhagulpore	Behar	...	...	...	...	...	...	...	NH	NH	NH	0.02	46.93	41.30
		Barr	...	...	...	...	...	...	...	NH	NH	NH	?	43.25	39.20
		Bickram	...	...	...	...	...	...	...	NH	NH	NH	?	58.33	?
		Hilsa	...	...	...	...	...	...	...	NH	NH	NH	?	50.24	?
	Sonthal Pergunnahs.	Begoeserai	...	...	...	...	...	...	...	NH	NH	NH	0.01	44.29	39.55
		Monghyr	...	...	...	...	...	...	...	NH	NH	NH	NH	54.84	45.92
		Jamui	...	...	...	...	...	...	...	NH	NH	NH	0.01	60.22	42.55
		Gopri	...	...	...	...	...	...	...	NH	NH	NH	?	76.44	?
	South Bhagulpore	Sheikpura	...	...	...	...	...	...	...	NH	NH	NH	?	47.76	?
		Bhagulpore	...	...	...	...	...	...	...	NH	NH	NH	0.03	59.77	41.08
		Baika	...	...	...	...	...	...	...	NH	NH	NH	0.04	42.11	43.21
		Kolga	...	...	...	...	...	...	...	NH	NH	NH	?	62.06	?
	Sonthal Pergunnahs.	Bongaon	...	...	...	...	...	...	...	NH	NH	NH	?	?	?
		Rajmehal	...	...	...	...	...	...	...	NH	NH	NH	0.04	56.86	51.94
		Godda	...	...	...	...	...	...	...	NH	NH	NH	0.07	50.78	43.75
		Pakour	...	...	...	...	...	...	...	NH	NH	NH	0.06	74.16	54.08
CHUTTA NAG-PUR.	Hazaribagh	Nya Doomka	...	...	...	...	...	...	...	NH	NH	NH	0.09	74.22	54.61
		Deokhur	...	...	...	...	...	...	...	NH	NH	NH	0.02	46.43	40.33
		Jamtara	...	...	...	...	...	...	...	NH	NH	NH	0.08	70.45	47.75
		Mohasana	...	...	...	...	...	...	...	NH	NH	NH	?	48.81	?
	Lohardugga	Nasihat	...	...	...	...	...	...	...	NH	NH	NH	?	82.28	?
		Pachamba	...	...	...	...	...	...	...	NH	NH	NH	0.05	55.35	46.85
		(Girdi)	...	...	...	...	...	...	...	NH	NH	NH	0.05	40.07	40.17
		Hazaribagh	...	...	...	...	...	...	...	NH	NH	NH	0.03	38.94	45.40
	Singbhoom	Semtakurah	...	...	...	...	...	...	...	NH	NH	NH	0.04	43.02	48.18
		Mahudi Hill	...	...	...	...	...	...	...	NH	NH	NH	NH	56.80	59.60
		Jhoomra Hill	...	...	...	...	...	...	...	NH	NH	NH	?	50.24	?
		Barhi	...	...	...	...	...	...	...	NH	NH	NH	?	47.08	?
	Lohardugga	Chatra	...	...	...	...	...	...	...	NH	NH	NH	?	57.34	?
		Karagdeha	...	...	...	...	...	...	...	NH	NH	NH	?	50.24	?
		Ramghar	...	...	...	...	...	...	...	NH	NH	NH	?	?	?
		Lohardugga	...	...	...	...	...	...	...	NH	NH	NH	0.01	53.19	49.38
CHUTTA NAG-PUR.	Singbhoom	Ranchi	...	...	...	...	...	...	...	NH	NH	NH	0.09	43.27	51.28
		Palamow	...	...	...	...	...	...	...	NH	NH	NH	0.02	44.27	42.31
		Sila	...	...	...	...	...	...	...	NH	NH	NH	?	45.85	?
		Raismat	...	...	...	...	...	...	...	NH	NH	NH	?	43.62	?
	Manbhoom	Hoseinabad	...	...	...	...	...	...	...	NH	NH	NH	?	41.75	?
		Garewah	...	...	...	...	...	...	...	NH	NH	NH	?	38.30	?
		Chyebassa	...	...	...	...	...	...	...	1	0.20	0.20	0.19	34.14	50.81
		Chakradhar-pore.	...	...	...	...	...	...	...	NH	NH	NH	?	24.63	?
	Singbhoom	Chatsilla	...	...	...	...	...	...	...	NH	NH	NH	?	51.46	?
		Baharagura	...	...	...	...	...	...	...	1	1.12	1.12	?	32.05	?
		Parulia	...	...	...	...	...	...	...	NH	NH	NH	0.11	44.29	48.41
		Gobindpore	...	...	...	...	...	...	...	NH	NH	NH	0.10	38.84	44.41
	Singbhoom	Raghunath-pore.	...	...	...	...	...	...	...	NH	NH	NH	?	62.26	?
		Barrabhoom	...	...	...	...	...	...	...	0.07	1	0.07	?	44.22	?
		Jhalda	...	...	...	...	...	...	...	NH	NH	NH	?	64.71	?
		Chas	...	...	...	...	...	...	...	NH	NH	NH	?	50.18	?

Explanation.—.....indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 16th December 1890.

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 12TH
OF DECEMBER 1890.**

The week commenced with conditions which were a little abnormal for the period; pressure was rather considerably in defect of the normal, particularly in North Bengal and Behar, where in some cases the defect almost equalled a tenth of an inch. Temperature was at the western and southern stations rather largely in excess, stations like Chupra and Dehree showing an excess in the mean temperature of nearly 7°. Winds were also much more strongly westerly than usual, and at some stations even south-westerly winds were reported. On the 7th pressure had risen generally, the rise being largest in Behar and North Bengal, while it was comparatively small in South and South-West Bengal. This was succeeded by a slight rise on the 8th which was fairly equal in all districts, while on the 9th a similar slight fall was recorded. On the 10th, however, another fall of pressure was recorded, which was largest in North Behar and North Bengal, and which over the whole of Bengal was moderately large except at the stations in the extreme south-east of the province and in the south of Orissa. Indeed, on this date a distinct area of low pressure was lying over Behar, part of North Bengal, and the western parts of Central and South-West Bengal. The winds blowing over Bengal showed distinctly the effect of this low-pressure area, and at the head of the Bay and at many of the inland stations also southerly winds set in, bringing up moderate amounts of moisture from the Bay. Temperature had also generally increased steadily, and in some cases rather rapidly, on the 7th, 8th, 9th, and 10th, the rise in the mean temperature on the latter date averaging about 2°, so that by the 10th temperature had become particularly high for the season. Indeed, at the western stations on this date the mean temperature was in excess of the normal by from 5° at Calcutta to about 11° at Ranchee and Chybassa, though at the eastern stations the excess temperatures were comparatively small. It will thus be seen on the 10th conditions were distinctly abnormal, and indeed rather disturbed. These disturbed conditions gave a few scattered local showers which were reported on the morning of the 11th from a few stations in South-West Bengal, East Bengal, and Chutia Nagpur, but the amounts were of little importance. On the 11th pressure had continued to fall at most stations, the fall being largest in North Bengal, and the area of low-pressure over this district on this day was very distinctly marked, and this was accompanied by a marked tendency for southerly winds at many stations. The excessive temperature also continued, and even increased at some stations, and it had also spread to a greater extent over the province than it had on the previous day; and at Calcutta, for instance, the mean temperature was 7.2° in excess of the normal, so that the disturbed conditions continued on the 11th. On the 12th, however, a very rapid rise of pressure had taken place, the rise at many stations considerably exceeding a tenth of an inch. Winds on this day became more northerly than they had been, and therefore more normal; and finally, temperature fell generally by amounts varying from 3° to 6°. Thus on the last day of the week conditions were rather rapidly reverting to their normal condition.

Pressure.—The general changes of pressure throughout the week have been already described. The mean pressure for the seven days has, however, not been very far removed from the normal, and at most stations pressure has been in defect by amounts ranging up to a twentieth of an inch, the defects being naturally largest at the northern stations.

Temperature.—Has been largely in excess, and for the whole province the mean excess has been between three and four degrees; the largest excess has been in Orissa and Chutia Nagpur, where it has equalled between five and six degrees. The distribution of temperature during the week and its variation from the normal are best seen in the table below, where the average maximum, minimum, and mean temperatures for the week at nine typical stations in different districts of the province are compared with their normal values for the same period. The variations, it will be seen, have been rather excessive both in the day and night temperatures.

Table showing the excess or defect of the actual mean temperature from the normal for the week ending the 12th of December 1890.

	Normal mean maximum temperature for the week ending 12th December.	Actual mean maximum temperature for the week ending 12th December 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 12th December.	Actual mean minimum temperature for the week ending 12th December 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 12th December.	Actual mean daily temperature for the week ending 12th December 1890.	Variation of actual mean from the normal.
Cuttack	82.1	86.8	+4.7	58.5	64.4	+5.9	70.8	76.6	+5.8
Calcutta	77.0	80.6	+3.6	58.4	60.7	+2.3	67.7	70.7	+3.0
Dacca	79.7	79.3	—0.4	59.3	60.4	+1.1	69.5	69.9	+0.4
Burdwan	78.4	82.4	+4.0	57.0	60.5	+3.5	68.0	71.4	+3.4
Patna	75.3	77.4	+2.1	52.6	56.3	+3.7	64.1	66.9	+2.8
Gya	74.7	80.6	+5.9	51.0	58.0	+7.0	63.9	69.3	+5.4
Purnea	77.7	76.9	—0.8	51.0	54.0	+3.0	64.4	64.9	+0.5
Hazribagh	72.0	77.2	+5.2	51.2	54.4	+3.2	61.6	63.8	+2.2
Darjeeling	50.0	47.2	—2.8	38.2	37.1	—1.1	44.6	42.2	—2.4

Rainfall—Has been entirely confined to a few local stations and has been of little practical importance. In no case does the average fall in any large meteorological district amount to more than a few hundredths of an inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 12th of December 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.								RAINFALL.							
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 16th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	89.4	58.5	80.1	65.2	74.4	+5.6	0.05	0.26	-0.21	0.2	0.3	-0.1	0.03	0.36	63.32	53.69
South-West Bengal ...	88.3	53.0	81.7	60.3	71.0	+3.4	Nil	0.06	-0.06	0.0	0.1	-0.1	Nil	0.17	56.83	51.45
East Bengal	82.0	54.1	78.3	59.7	69.0	+1.6	0.06	0.14	-0.08	0.2	0.2	0	0.06	0.31	71.48	73.97
North Bengal	81.0	49.7	77.4	56.1	66.7	+1.4	Nil	0.05	-0.05	0.0	0.1	-0.1	Nil	0.10	95.09	68.64
North Behar	80.2	46.9	76.8	54.8	65.8	+1.9	Nil	0.05	-0.05	0.0	0.1	-0.1	Nil	0.05	64.38	48.03
South Behar	82.4	50.0	79.2	56.7	68.0	+4.3	Nil	0.04	-0.04	0.0	0.1	-0.1	Nil	0.05	54.66	43.24
Chutia Nagpur	80.0*	51.4*	77.4*	56.2*	66.8*	+5.7*	0.02	0.03	-0.01	0.1	0.1	0	0.02	0.06	46.02	48.35

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;
The 9th December 1890.

A. PEDLER,
Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 7th to 13th December 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.				HYGROMETRY.					Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
December ...	7th ...	30.031	70.3	81.1	21.7	59.4	74.6	66.1	.529	60.5	61	Nil
" ...	8th ...	.047	71.4	82.0	21.3	60.7	75.1	67.1	.558	62.1	64	...
" ...	9th ...	.047	72.0	82.9	21.9	61.0	74.6	67.6	.583	63.3	68	...
" ...	10th ...	29.999	75.5	84.9	18.8	66.1	77.6	67.1	.524	60.3	55	...
" ...	11th ...	.987	74.6	81.9	14.6	67.3	77.1	68.1	.568	62.5	61	...
" ...	12th ...	30.070	72.1	80.3	16.4	63.9	73.6	64.6	.490	58.4	59	...
" ...	13th ...	.023	70.7	80.9	20.5	60.4	71.6	63.6	.483	58.0	62	...

The mean 10 A.M. pressure of the seven days Inches.
30.029

The mean temperature of the seven days 72.4

The extreme variation of temperature 25.5

The maximum temperature 84.9

The mean 10 A.M. relative humidity of the seven days %
61

The total fall of rain from 7th to 13th December 1890 Inches.
Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

METEOROLOGICAL OFFICE, INDIA;
The 15th December 1890.

C. LITTLE,
For Meteorological Reporter to the Govt. of India.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 29th November 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 29th November 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 26.5 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 1.8 below the average rate of the corresponding week of the past five years, and is also below the rate of the corresponding week of any of the past five years with which comparison is instituted, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	28.3	26.8	30.7	27.8	27.7	28.3	26.5

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

Towns.	WEEKS ENDING—				Towns.	WEEKS ENDING—			
	8th Nov. 1890.	15th Nov. 1890.	22nd Nov. 1890.	29th Nov. 1890.		8th Nov. 1890.	15th Nov. 1890.	22nd Nov. 1890.	29th Nov. 1890.
Burdwan	32.0	21.4	30.7	33.6	Narainganj	115.9	74.5	37.3	91.1
Midnapore	17.0	15.5	23.2	26.3	Chittagong	14.1	16.4	9.4	4.7
Hughli and Chinsurah	27.9	32.8	44.3	24.6	Comillah	27.0	23.1	27.0	42.4
Serampore	39.3	55.0	43.2	33.4	Patna City	15.3	10.7	13.3	12.3
Utterpara	37.7	37.7	56.6	56.6	Gya	17.8	21.9	31.2	21.9
Howrah	32.8	28.1	36.1	31.5	Arrah	43.1	10.8	33.5	10.8
Bali	21.1	21.1	31.6	14.0	Mozufferpore	32.8	32.8	10.9	24.3
Krishnagar	18.9	13.2	11.4	9.5	Durbhanga	31.5	30.2	40.1	46.4
Ranaghat	12.0	24.0	12.0	6.0	Chupra	19.1	14.1	22.1	21.1
Santipore	15.8	19.3	24.5	22.8	Bhagulpore	50.7	37.1	24.4	40.7
Jessore	12.2	30.6	6.1	6.1	Monghyr	44.3	30.7	38.9	37.1
Rampore Beaulah	44.7	44.7	52.5	40.9	Purneah	27.7	6.9	10.4	17.3
Darjiling	14.8	44.5	29.6	44.5	Poori	27.3	14.7	14.7	12.6
Dacca	31.1	24.0	31.1	31.1	Total	28.9	24.2	27.6	26.5

It will be seen that last week the highest birth-rate was returned from Narainganj (91.1) and the lowest from Chittagong (4.7).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 25.7 per 1,000 of the population. The rate of the week is 7.8 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1888, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	39.1	43.2	28.2	24.7	32.0	33.5	25.7

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

Towns.	WEEKS ENDING—				Towns.	WEEKS ENDING—			
	8th Nov. 1890.	15th Nov. 1890.	22nd Nov. 1890.	29th Nov. 1890.		8th Nov. 1890.	15th Nov. 1890.	22nd Nov. 1890.	29th Nov. 1890.
Burdwan	25.9	22.9	33.6	41.2	Narainganj	41.4	58.0	58.0	120.1
Midnapore	24.8	29.4	29.4	20.1	Chittagong	21.1	14.1	9.4	18.8
Hughli and Chinsurah	27.9	52.5	37.7	27.9	Comillah	23.1	19.3	23.1	39.8
Serampore	43.1	72.6	80.4	53.0	Patna City	16.2	14.3	14.3	14.6
Utterpara	37.7	66.1	28.3	75.5	Gya	44.4	44.4	49.9	30.1
Howrah	19.5	23.9	26.9	26.9	Arrah	22.7	12.0	13.2	7.2
Bali	24.0	21.1	17.5	17.5	Mozufferpore	29.7	17.0	17.0	14.6
Krishnagar	18.9	5.7	5.7	5.7	Durbhanga	14.2	18.9	33.0	27.5
Ranaghat	6.0	12.0	30.0	35.9	Chupra	12.1	8.0	13.1	8.0
Santipore	19.3	7.0	17.5	8.8	Bhagulpore	16.3	17.2	19.0	15.4
Jessore	24.5	44.0	18.4	36.7	Monghyr	40.7	27.1	26.2	28.0
Rampore Beaulah	47.3	13.1	47.3	47.3	Purneah	24.2	13.9	6.9	20.8
Darjiling	29.6	7.4	...	22.2	Poori	25.2	65.6	58.7	96.5
Dacca	21.4	15.6	45.4	28.5	Total	23.9	23.4	28.1	25.7

It will be seen that last week the highest mortality occurred in the town of Narainganj (120·1) and the lowest in Krishnagar (5·7).

Measured by last week's mortality, the highest annual death-rates from cholera, fever, bowel-complaints and other causes occurred in the following towns:—

<i>Cholera.</i>		<i>Fever.</i>		<i>Bowel-complaints.</i>		<i>Other causes.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.		Ratio per mille.
Narainganj	... 62·1	Rampore Beaulah	39·4	Serampore	... 13·7	Narainganj	... 29·0
Poori	... 39·8	Utterpara	... 37·7			Serampore	... 23·6
Howrah	... 5·7	Jessore	... 36·7			Poori	... 21·0
Dacca	... 3·2	Poori	... 33·6			Hughli and Chinsurah	13·1
		Comillah	... 23·1			Burdwan	... 12·2
						Gya	... 11·6
						Dacca	... 11·0

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 3·5 from cholera, against 2·3 per 1,000 in the preceding week; 11·7 from fever, against 14·2; 2·5 from bowel-complaints, against 3·5; and ·3 from injury, against ·4. Small-pox and other causes exhibit the same ratios as in the preceding week, viz., ·1 and 7·5 per 1,000 respectively.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	... 26·8	Christians	... 41·8	Under 1 year	... 149·5
Females	... 24·5	Hindus	... 26·2	1 and under 5 years	... 28·0
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population...	109	Mahomedans	... 24·4	5 " 10 "	... 16·5
				10 " 15 "	... 7·6
				15 " 20 "	... 13·5
				20 " 30 "	... 15·0
				30 " 40 "	... 22·0
				40 " 50 "	... 28·2
				50 " 60 "	... 25·5
				60 years and upwards	... 72·0

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

Sanitary Commissioner for Bengal.

The 15th December 1890.

1	2	3	4	5	6	7	8	9	10	11	12															
DISTRICTS MUNICIPAL- ITIES.	NAMES OF MUNICIPAL- ITIES.	POPULATION.			BIRTHS.			MORTALITY ACCORDING TO—																		
		Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	DISEASE.				Ratio of male deaths to every 100 female deaths, calculated on the propor- tion such mortality bears to the total male and female population.													
									DEATHS FROM—					RATIO PER 1,000 OF POPULATION PER ANNUM.	DEATHS.		RATIO PER 1,000 OF POPULA- TION PER ANNUM.									
									Cholera.	Small-pox.	Fevers.	Bowel-complaints.			Injury.	Other diseases.		All causes.	Males.	Females.						
		NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.																					
		Males.	Females.	Total.	Males.	Females.	Total.																			
Burdwan	Burdwan	15,063	16,017	31,080	10	15	25	153	163	316	83	1	...	13	4	1	8	27	15	33	14	13	403	422	95	
Midnapore	Midnapore	16,227	16,633	32,860	7	10	17	108	155	263	70	...	...	7	1	1	4	13	...	204	6	7	184	219	84
Hughli	Hughli and Chinsurah, Serampore...	15,855	15,539	31,394	3	12	15	49	197	246	35	...	...	8	1	...	8	17	...	377	8	9	262	296	88
Serampore	Serampore	13,559	12,937	26,496	7	10	17	137	196	334	70	...	1	8	7	...	12	28	...	236	15	13	373	522	115	
	...	3,046	2,463	5,510	3	3	6	283	283	566	100	...	1	4	8	8	94	...	283	7	1	1195	211	666
Howrah	Howrah	53,133	37,069	90,202	29	26	55	166	149	315	111	10	...	16	10	...	11	47	...	283	34	18	333	180	185	
	...	7,836	6,979	14,815	3	3	6	105	85	190	300	...	...	4	1	...	...	5	...	140	35	...	199	149	133
	...	18,528	14,214	32,742	4	1	5	76	19	95	400	...	...	...	...	...	1	3	...	...	...	2	39	73	63
Nudda	Nudda	4,028	4,655	8,683	1	...	1	60	...	60	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jessore	Jessore	4,330	3,668	8,000	1	...	1	61	...	61	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rajshahye	Rajshahye	10,764	9,022	19,786	5	14	19	131	308	439	...	...	...	15	...	...	1	18	...	367	1	5	108	709	16
Darjiling	Darjiling	4,379	2,439	6,818	4	2	6	296	148	444	200	...	...	1	1	...	1	3	...	97	2	1	227	243	106
Dacca	Dacca	42,782	37,579	80,361	20	28	48	130	181	311	71	5	...	15	7	...	17	44	...	110	21	21	280	292	96	
Chittagong	Chittagong	7,003	4,956	11,959	2	13	15	23	23	46	69	...	...	4	1	...	7	29	...	150	18	11	123	1154	106
Tipperah	Tipperah	8,153	6,856	15,009	1	1	2	23	23	46	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Patna	Patna City	78,762	81,476	160,238	23	15	38	75	48	123	123	6	...	21	5	...	12	42	...	63	24	21	138	154	118	
Gya	Gya	38,220	37,831	76,051	18	14	32	123	96	219	128	2	...	24	1	...	17	44	...	116	23	21	312	289	108	
Shahabad	Shahabad	20,960	22,806	43,766	5	4	9	60	48	108	125	...	...	3	...	...	...	6	...	...	...	...	...	...	...
Monrotpore	Monrotpore	23,084	19,638	42,722	14	6	20	170	73	243	233	...	...	7	1	...	2	19	...	85	1	5	503	79	237
Durbhanga	Durbhanga	33,774	32,322	66,096	37	22	59	201	173	374	168	3	...	20	3	...	9	25	...	157	19	16	283	257	114	
Saran	Saran	25,116	26,554	51,670	11	10	21	111	100	211	110	...	...	2	...	...	6	8	...	20	...	...	...	...	...
Bhagulpore	Bhagulpore	29,640	27,813	57,453	19	26	45	172	235	407	73	3	...	7	...	...	7	17	...	63	...	...	...	...	...
Monghyr	Monghyr	28,154	29,306	57,460	23	18	41	208	163	371	147	...	...	13	6	...	10	31	...	118	...	...	...	...	...
Purneah	Purneah	8,483	6,535	15,018	2	3	5	69	104	173	65	...	...	5	1	...	...	6	...	...	...	...	...	...	...
Poori	Poori	13,227	11,537	24,764	4	2	6	84	42	126	200	...	...	16	1	...	10	46	...	236	...	...	...	...	...
Total		350,956	310,588	661,544	273	267	540	154	151	305	102	72	3	238	51	7	164	625	53	117	25	...	...	...	...

		13		14		15		16																						
		MORTALITY ACCORDING TO—																												
		Class.										Age.																		
DISTRICTS.	NAMES OF MUNICIPALITIES.	DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.					RATIO PER 1,000 OF POPULATION PER ANNUM.													
		Christians.	Hindus.	Mahomedans.	Budhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Budhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	21	6				46.1	30.4			2	3			2	3	4	9	2	2	157.6	69.1			33.3	19.7	30.2	100.0	42.4	70.2
Midnapore	Midnapore	1	8	4			233.2	16.0	23.8		3	1	1	2	1		3		2		216.0	22.1	13.9	34.2	16.5		28.1		50.4	
Hughli	Hughli and Chinsurah.	13	4				26.7	33.7			5		3	1			1	3	2	2	323.8		54.1	21.0			9.1	57.4	40.0	50.2
Serampore	Serampore	24	4				40.5	221.7			5	6	2		2	3	4	3		3	305.2	172.9	41.4		47.6	29.0	41.8	46.2		112.1
	Utterpara	8					78.1				1					1	3	1		2	323.0					45.2	147.0	74.2		400.0
Howrah	Howrah	35	12				26.7	30.4			5	1	2			7	11	9	6	6	126.0	9.4	16.5			16.0	29.7	32.8	56.8	83.2
	Bali	5					19.4				1	2								2	143.6	104.1								142.1
	Krishnagar	2	1				5.6	6.3								1				2										60.3
Nuddes	Ranaghat	4	2				28.4	76.2			1		1			1	1	1	1		251.2		46.6			34.5	41.7	51.8	71.8	
	Santipore	3	2				7.5	11.6			3				1			1			184.6				23.4			14.8		
Jessore	Jessore	4	2				46.1	27.2			1					2		1		2	265.0					51.6		49.5		227.1
Rajshahye	Rampore Beaulah	6	12				31.5	63.6			2	1	1	2		1	3	3		5	256.2	36.7	25.0	57.7		12.5	43.3	63.6		270.0
Darjiling	Darjiling	3					34.0							1		1	1							1.6.6		26.0	33.3			
Dacca	Dacca	2	22	20			218.2	28.4	26.4		2	7	5	1	2	9	3	6	2	7	54.8	49.4	26.2	6.5	14.2	30.5	13.4	37.2	23.0	65.3
	Narainganj	16	13				131.6	109.7			6	2		1	3	1	7	4	1	4	1,118.3	91.2		45.8	149.3	19.5	170.2	149.3	66.5	319.0
Chittagong	Chittagong	3	1	4			196.0	9.0	13.6		1	1	2				2	1		1	92.4	26.4	41.6				31.2	23.0		65.3
Tipperah	Comillah	2	6				17.5	42.2			2	1		1		2	1		1		350.2	39.8		35.6		37.7	26.1		64.9	
Patna	Patna City	40	5				17.5	6.4			6	5	1	2	2	5	7	7	4	6	72.4	17.8	3.1	7.2	9.3	9.0	15.7	19.3	14.7	22.6
Gya	Gya	34	10				29.5	32.3			6	5			1	5	3	2	4	18	174.3	49.9			9.9	17.7	12.3	16.6	31.6	181.9
Shahabad	Arrah	4	2				6.7	8.4			1	1	2	1				1			40.4	11.7	29.3	11.8				11.1		
Mozufferpore	Mozufferpore	7	5				12.1	20.8			6	2				1	1	2			826.7	25.7				6.1	7.5	20.8		
Durbhanga	Durbhanga	26	9				27.9	26.6			2	6	8	2	1	1	2	3	1	9	66.8	41.0	59.8	18.7	12.9	3.9	9.3	21.0	11.9	146.5
Saran	Chupra	8					10.5				3				2		1			2	110.6				30.0		6.7			39.6
Bhagulpore	Bhagulpore	13	4				17.0	12.1			4	3	3		1	2	1			3	174.2	28.8	26.6		12.4	9.5	5.6			45.3
Monghyr	Monghyr	21	10				24.4	41.4			3		1		3	9	4	4	2	5	105.1		7.4		41.3	45.3	23.3	32.6	26.2	72.5
Purneah	Purneah	5	1				28.3	9.2									2	3		1							36.5	84.1		64.4
Feori	Feori	46					9.5				2	3	3			6	9	4	10	9	343.2	80.8	69.6			59.1	115.5	62.6	233.1	239.1
TOTAL		6	381	138			44.8	6.2	24.4		73	50	35	14	21	61	74	68	38	91	149.5	28.0	16.5	7.6	13.5	15.0	22.0	28.2	25.5	72.0

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing Quantities of Goods carried during the month of October 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
603	1. Grain ...	855.40	5,436.71	6,292.11	4,38,451	6,292.11	4,38,451	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
164	3. Oilseeds ...	35	4,284.74	4,319.74	4,29,890	4,319.74	4,29,890	
329	4. Salt ...	3,361.14	29.37	3,390.51	3,06,551	3,390.51	3,06,551	
16	5. Piece-goods ...	5.62	14	19.62	11,650	19.62	11,650	
32	6. Metal ..	193.77	11.22	204.99	37,035	204.99	37,035	
61	7. Building materials	352.59	140.70	493.29	3,188	493.29	3,188	
1,980	8. Miscellaneous ...	6,263	19,073.44	25,336.44	27,50,321	25,336.44	27,50,321	
101	9. Fuel ...	733.29	894.62	1,627.91	16,002	1,627.91	16,002	
4 rafts	10. Timber ...	397 c. ft.	305 c. ft.	702 c. ft.	935	702 c. ft.	935	
20 "	11. Bamboos ...	82 c. ft.	17,779 c. ft.	17,861 c. ft.	1,772	17,861 c. ft.	1,772	
3,286 & 24 rafts.	12. Total ...	{ 11,799.81 & 479 c. ft.	{ 29,884.80 & 18,084 c. ft.	{ 41,684.61 & 18,563 c. ft. }	39,95,795	{ 41,684.61 & 18,563 c. ft. }	39,95,795	
2,425 & 24 rafts.	13. Total of same month last year	{ 8,737 & 311 c. ft.	{ 18,957 & 24,125 c. ft.	{ 27,694 & 24,436 c. ft. }	30,17,002	{ 27,694 & 24,436 c. ft. }	30,17,022	
		Up.	Down.	Total.				Rs. A. P.
4. Total number of boats plying cargo No.		1,418	1,868	3,286	Total tollage of month—24+25+26 ...			22,211 6 0
4a. Empty boats "		923	196	1,119	Total tollage of same month last year ...			16,802 15 6
5. Total number of boats plying passenger No.		920	1,315	2,235	Memorandum of Tollage.			
6. Total registered tonnage, cargo Tons		30,788	62,651	93,439				
7. Total registered tonnage, passenger Tons		1,065	841	1,906				
8. Ton-mileage		.....	.....	.....	
9. Estimated value of cargo Rs.		14,42,726	25,50,362	39,93,088	1. Balance not recovered on the 1st of the month ...			Rs. A. P. 1,017 10 6
10. Number of passengers No.		1,604	1,881	3,485	2. Tollage per month ...			22,211 6 0
11. Rafts, bamboos C. ft.		82	17,779	17,861	3. Total ...			23,229 0 6
12. Do., bullahs "		397	305	702	4. Amount paid into treasury during the month ...			22,776 12 10
13. Estimated value of rafts Rs.		665	2,042	2,707	5. Balance due at the end of the month ...			452 3 8
14. Tollage on boats "		7,726-10-6	14,458-4-6	22,184-15-0				
15. Compounded tollage on boats Rs.		.....	.....	.....	
16. Tollage on rafts "		4-2-0	22-5-0	26-7-0				
17. Total tollage on boats per ton-mile "		.....	.....	.....	
18. Total tollage on rafts per 100 cubic feet ... Rs.		.....	.....	0-2-3				

* Boats in these rivers do not pay per mile.

Abstract for the month of October 1890 as compared with the corresponding month of the previous year.

	1890-91.		1889-90.	
	During the month.		During the month.	
	Rs.	A. P.	Rs.	A. P.
Tollage ...	22,211	6 0	16,802	15 6
	1,40,199	3 0	1,33,863	2 9

CALCUTTA,
The 16th December 1890.G. A. G. SHAW, E.
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97½ MILES.

Statement showing Quantities of Goods carried during the month of October 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
93	1. Grain ...	673	24	697	28,347	697	28,347	
2	2. Cotton ...	2	.....	2	1,170	2	1,170	
14	3. Oilseeds ...	69	.....	69	6,210	69	6,210	
26	4. Salt ...	.....	202	202	22,640	202	22,640	
8	5. Piece-goods ...	.....	29	29	48,400	29	48,400	
...	6. Metal ...	.....	.....	.....	.....	.....	.....
20	7. Building materials ...	38	88	126	994	29	451	
672	8. Miscellaneous ...	191	519	710	92,643	701	92,423	
13	9. Fuel ...	6	12	18	92	18	92	
14 rafts	10. Timber ...	3,437 c. ft.	.....	3,437 c. ft.	2,143	3,437 c. ft.	2,143	
15 „	11. Bamboos ...	650 „	75 c. ft.	725 „	77	725 „	77	
848 & 29 rafts	12. Total ...	{ 979 & 4,087 c. ft.	{ 874 75 c. ft.	{ 1,853 & 4,162 c. ft. }	2,02,716	{ 1,747 & 4,162 c. ft. }	2,01,953	
796 & 47 rafts	13. Total of same month last year.	{ 1,290 & 5,081 c. ft.	{ 626 607 c. ft.	{ 1,916 & 5,688 c. ft. }	1,51,271	{ 1,883 & 5,688 c. ft. }	1,50,841	
		Up.	Down.	Total.				Rs. A. P.
14. Total number of boats plying cargo No.		385	463	848	Total tollage of month—			
15. Total number of boats plying passenger No.		117	89	206	24+25+26 ...			4,259 9 9
16. Total registered tonnage, cargo Tons		2,787	2,777	5,564	Total tollage of same month last year ...			4,668 15 3
17. Total registered tonnage, passenger Tons		965	1,017	1,982	Memorandum of Tollage.			
18. Ton-mileage ...		108,356	125,234	233,590				
19. Estimated value of cargo Rs.		61,561	1,38,935	2,00,496				
20. Number of passengers No.		2,351	3,876	6,227				
21. Rafts, bamboos C. ft.		650	75	725				
22. Do., bullahs „		3,437	.....	3,437				
23. Estimated value of rafts Rs.		2,213	7	2,220				
24. Tollage on boats „		1,998-4-0	2,133-0-3	4,131-4-3				
25. Compounded tollage on boats Rs.		5-5-6	27-13-0	33-2-6				
26. Tollage on rafts „		95-0-0	0-3-0	95-3-0				
27. Total tollage on boats per ton-mile Rs.		.....	.....	0-0-3-4				
28. Total tollage on rafts per 100 cubic feet Rs.		.....	.....	2-4-7				
					1. Balance not recovered on the 1st of the month	2,906	3 3	
					2. Tollage per month ...	4,259	9 9	
					3. Total ...	7,165	13 0	
					4. Amount paid into treasury during the month ...	2,667	0 6	
					5. Balance due at the end of the month ...	4,498	12 6	

Abstract for the month of October 1890 as compared with the corresponding month of the previous year.

		1890-91.		1889-90.	
		During the month.	To end of the month.	During the month.	To end of the month.
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage	...	4,259 9 9	37,806 2 0	4,668 15 3	33,620 8 9

CALCUTTA,
The 16th December 1890.G. A. G. SHAW,
Under-Secy. to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 13th December 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 13TH DECEMBER 1890.			WEEK ENDING SATURDAY, THE 14TH DECEMBER 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	900	78,450	1,110	1,149	73,775	932
Jute	279	1,70,155	3,000	400	2,32,850	4,455
Firewood	144	85,325	1,282	74	45,050	853
Other articles	1,130	2,48,520	3,921	1,206	2,74,675	4,276
Total	2,453	5,82,450	9,313	2,829	6,26,350	10,316

Nalhati State Railway.

*Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State
Railway during the month of September 1890, as compared with the same month of the previous year.*

STAPLES.	1889.		1890.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1890.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.		
Coal	869	.....	873	.....	869	873	4	.....
Cotton, raw	.....	.....	6	.....	.....	6	6	.....
Cotton piece-goods—								
1.—European	67	2	16	.....	69	16	.....	53
Grains—								
2.—Rice	115	2	110	29	117	139	22	.....
4.—Others	103	8	56	.....	111	66	.....	55
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed	.....	6	.....	.....	6	.....	.....	6
Jute—								
2.—Gunny-bags and cloths	1	.....	3	2	1	5	4	.....
Metals—								
4.—Others	1	6	.....	2	7	2	.....	5
Oils—								
1.—Castor	.....	.....	2	.....	.....	2	2	.....
2.—Kerosine	3	.....	.....	1	3	1	.....	2
3.—Others	2	.....	.....	.....	2	.....	.....	2
Oil-seeds—								
3.—Mustard and rape	77	.....	38	.....	77	38	.....	39
6.—Others	2	.....	.....	.....	2	.....	.....	2
Provisions—								
1.—Ghee	3	.....	2	.....	3	2	.....	1
2.—Dried fruits and nuts	.....	12	.....	15	12	15	3	.....
3.—Others	2	7	.....	.....	9	1	.....	8
Paper and pasteboard	.....	.....	2	.....	.....	2	2	.....
Railway plant and rolling-stock	32	.....	32	4	32	36	4	.....
Salt	64	.....	23	.....	64	23	.....	41
Silk, raw—								
2.—Indian	1	34	.....	2	35	2	.....	33
Silk piece-goods—								
2.—Indian	.....	1	.....	2	1	2	1	.....
Stone and lime	6	.....	.....	.....	6	.....	.....	6
Sugar—								
1.—Drained	12	.....	8	.....	12	8	.....	4
2.—Undrained	11	.....	30	.....	11	30	19	.....
Tobacco	2	.....	.....	.....	2	.....	.....	2
Timber	4	.....	18	.....	4	18	9	.....
All other articles of merchandise	85	15	77	19	100	96	.....	4
Total	1,462	93	1,292	76	1,555	1,368	76	263

INCREASE.

	Tons.
Grains—	22
(2) Rice	.....
This increase is due to greater despatches from intermediate stations.	
Sugar—	19
(2) Undrained	.....
This is due to greater demand at Azimgunj.	

DECREASE.

	Tons.
Cotton piece-goods—	53
(1) European	.....
Grains	55
(4) Others	.....
Oil-seeds—	39
(2) Mustard and rape	41
Salt	.....
Silk, raw—	33
(2) Indian	.....
All these decreases are due to breach of the line by flood.	

R. G. MOOKERJEE,
Manager, Nalhati State Railway.

Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of September 1890, as compared with the same month of the previous year.

STAPLES.	1890.		1889.		TOTAL.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
Coal	Tons. 1,508	Tons. 2,165	Tons. 6,974	Tons. 1,670	Tons. 8,176	Tons. 8,644	.....	Tons. 468
Cotton, raw	.....	66	6	25	66	31	.....	.....
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	2,937	73	3,591	113	3,010	3,704	.....	694
Grains—								
2.—Rice	2,197	2,614	1,328	1,601	4,811	2,929	1,882	.....
5.—Others	909	2,358	832	2,294	3,867	3,126	741	.....
Hides and skins—								
2.—Skins of sheep, &c.—								
b.—Undressed	3	402	7	540	405	547	.....	142
Jute—								
1.—Raw—								
a.—Screwed	1	4,569	.....	10,661	4,570	10,661	.....	6,031
b.—Unscrewed	61	38,376	45	52,937	38,437	52,982	.....	14,545
2.—Gunny-bags and cloth	106	801	67	767	907	824	83	.....
Metals—								
3.—Brass and copper, wrought	747	61	744	122	898	866	.....	58
Oils—								
2.—Kerosine	1,077	2	402	4	1,079	406	673	.....
3.—Others	131	47	266	13	178	219	.....	41
Oil-seeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger								
5.—Castor								
6.—Poppy								
7.—Others	76	754	64	815	830	879	.....	49
Provisions—								
2.—Betel-nuts	72	49	122	168	121	230	.....	169
3.—Others	433	161	425	228	594	653	.....	59
Railway plant and rolling-stock	.....	.....	5,625	1,405	5,645	7,030	.....	1,385
Salt	3,904	30	2,862	9	3,334	2,871	463	.....
Sugar—								
1.—Drained								
2.—Undrained	956	91	403	235	1,047	638	409	.....
Tea—								
1.—Foreign								
2.—Indian	1	2,393	2	2,183	2,394	2,185	209	.....
Wood—								
1.—Timber	73	59	63	16	132	79	53	.....
2.—Firewood	1,700	.....	1,523	.....	1,700	1,523	177	.....
Tobacco	20	1,192	56	1,342	1,212	1,398	.....	186
All other articles of merchandise—								
1.—Unmanufactured	2,407	935	2,426	2,796	3,342	5,222	.....	1,880
2.—Manufactured	.....	.....	.....	.....	.....	.....	.....	.....
Hay, straw, and wooloo (C. & S.-E. Sections)	560	.....	527	.....	560	527	33	.....
Total	19,279	57,798	28,290	79,824	87,225	1,08,114	4,758	25,647

Comparative statement of the principal commodities carried over the Eastern Bengal State Railway during the month of September 1890.

INCREASES.						Tons.
Rice	.....	.....	.....	.....	.....	1,882
From the Northern and Behar Sections principally.						
Kerosine oil	.....	.....	.....	.....	.....	673
The increase is due to the opening of Budge-Budge.						
DECREASES.						Tons.
Cotton piece-goods	.....	.....	.....	.....	.....	694
Due to suspension of traffic on account of floods.						
Jute, unscrewed	.....	.....	.....	.....	.....	14,545
Serajganj, Narayanganj, Goalundo and Pangsa show very large decreases due to suspension of traffic on account of floods.						
Jute, screwed	.....	.....	.....	.....	.....	6,031
This decrease was in traffic from Narayanganj and Goalundo, and is said to be due to the same cause as in the foregoing item.						

CALCUTTA, the 10th December 1890.

F. P. QUINLAN,
Examiner of Accounts.

Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of September 1890, as compared with the same month of the previous year.

STAPLES.	1890.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	222	.....	1,624	.....	873	1,62	.....	751
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	126	.....	416	1	126	417	.....	291
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	130	41	62	18	191	80	111	.....
5.—Others	50	2	55	286	52	341	.....	289
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed								
2.—Skins of sheep, &c.—		17	.....	27	17	27	.....	10
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
b.—Unscrowed ... ..	.....	1,878	.....	9,383	1,878	9,383	.....	7,505
2.—Gunny-bags and cloth	5	2	1	.....	7	1	6	.....
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought								
4.—Iron	10	2	44	22	12	66	.....	54
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	52	.....	122	.....	52	122	.....	70
3.—Others	22	.....	88	.....	22	88	.....	66
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	54	22	22	93	76	115	.....	39
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betel-nuts ... ..	.....	32	2	80	32	82	.....	50
3.—Others	6	17	16	40	23	56	.....	33
Railway plant and rolling-stock ... ..	.....	.....	42	10	103	52	51	.....
Salt	184	1	247	7	185	254	.....	69
Sugar—								
1.—Drained	13	90	9	204	103	213	.....	110
2.—Undrained								
Tobacco	10	21	30	38	31	68	.....	37
All other articles of merchandise—								
1.—Unmanufactured								
2.—Manufactured	257	148	357	130	405	546	.....	141
Total	1,161	2,273	3,137	10,398	4,188	13,535	168	9,515

Comparative statement of the principal commodities carried over the Bengal Central Railway during the month of September 1890.

DECREASES.

	Tons.
Coal	751
Sufficiency of stock for railway and flotilla consumption.	
Jute, unscrowed	7,505
From Khoolna and Nawapara due to suspension of traffic on account of floods at Benapole.	

CALCUTTA, the 10th December 1890.

F. P. QUINLAN,
Joint-Auditor and Examiner of Accounts.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 6th December 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	238,716	3,08,602 15 0	22,70,080 20	6,39,559 7 0	17,750 15 0	9,65,913 5 0	73,376½	88,405½	161,782½
Or per mile of railway ...	.....	202 4 9	.....	419 3 11	11 10 2	633 2 19	.....	.....	.....
For previous 22 weeks of half-year ...	5,003,952	54,33,023 15 0	4,13,70,808 10	90,48,096 11 0	3,63,855 13 5	1,57,35,576 7 5	1,434,222½	1,677,571	3,112,493½
Total for 23 weeks ...	5,242,668	57,42,226 14 0	4,36,50,788 30	1,05,87,656 2 0	3,71,006 12 5	1,67,01,459 12 5	1,508,238½	1,765,976½	3,274,275½
COMPARISON.									
Total for corresponding week of previous year ...	252,032½	3,19,717 10 8	23,83,374 30	6,14,273 14 0	22,613 15 11	9,56,605 8 7	68,895	85,121	154,016
Per mile of railway corresponding week of previous year ...	.....	209 9 4	.....	402 10 9	14 13 2	627 1 3	.....	.....	.....
Total to corresponding date of previous year ...	5,553,403	62,01,434 9 11	4,86,75,284 20	1,10,06,306 8 6	3,85,976 12 4	1,75,03,717 14 9	1,513,187	1,851,351	3,364,538

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 7TH DECEMBER 1889.			RECEIPTS FOR WEEK ENDING 6TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 7TH DECEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 6TH DECEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		
1,525½	9,56,606	627	1,525½	9,65,913	633	1,525½	2,96,20,470	539	1,525½	2,77,33,880	505	.....	18,86,590

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 6th December 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	14,453	7,835 2 0	53,430 20	3,567 2 0	42 0 0	11,444 4 0	1,673	721	2,394
Or per mile of railway ...	253	136 15 8	934 10	62 5 9	0 11 9	200 1 2	.....	.....	.....
For previous 22 weeks of half-year ...	288,792	1,67,793 12 0	7,72,482 10	50,886 13 0	723 13 0	2,19,404 6 0	31,357½	12,142	43,499½
Total for 23 weeks ...	303,245	1,76,628 14 0	8,25,912 30	54,453 15 0	765 13 0	2,30,848 10 0	33,030½	12,863	45,893½
COMPARISON.									
Total for corresponding week of previous year ...	12,423	6,536 4 11	40,319 20	2,377 13 0	50 10 3	8,964 12 2	1,738	799	2,537
Per mile of railway corresponding week of previous year ...	217	114 4 4	765 0	41 9 2	0 12 2	156 11 8	.....	.....	.....
Total to corresponding date of previous year ...	318,858½	1,77,970 11 10	10,87,565 0	52,586 3 0	1,602 11 3	2,32,139 10 1	36,040	16,921	52,961

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 7TH DECEMBER 1889.			RECEIPTS FOR WEEK ENDING 6TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 7TH DECEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 6TH DECEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		
57½	8,925	157	57½	11,444	200	57½	3,46,136	169	57½	3,59,808	175	13,673	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 6th December 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	18,431	4,679 6 0	13,382 0	543 8 0	6 11 0	5,229 9 0	882	86	968
Or per mile of railway ...	210 4 11			24 6 10	4 10 0	235 0 7			
For previous 22 weeks of half-year ...	361,830	89,003 8 0	1,56,366 10	5,811 4 0	129 6 0	95,544 2 0	19,856	1,110	20,966
Total for 23 weeks ...	380,261	94,282 14 0	1,69,748 10	6,354 12 0	136 1 0	1,00,773 11 0	20,738	1,196	21,934
COMPARISON.									
Total for corresponding week of previous year ...	17,857	4,623 8 8	38,317 0	585 9 0	13 2 6	5,222 4 2	876	272	1,148
Per mile of railway corresponding week of previous year ...		207 12 10		26 5 1	0 9 5	234 11 4			
Total to corresponding date of previous year ...	410,033	1,00,511 5 1	2,62,185 10	6,505 15 0	143 4 3	1,07,160 8 4	21,073	1,950	23,023

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 7TH DECEMBER 1889.			RECEIPTS FOR WEEK ENDING 6TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 7TH DECEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 6TH DECEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,222	235	22½	5,239	235	22½	1,89,798	237	22½	1,86,824	232	.....	3,974

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K.-D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 29th November 1890, on 763 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	6174,078	89,980 0 0	6,26,186 0	1,66,700 0 0	28,870 0 0	3,85,550 0 0	23,500	52,148	55,648
Or per mile of railway ...	228	118 0 0	821 0	218 0 0	110 0 0	346 0 0			
For previous 21 weeks of half-year ...	62,921,760	12,05,236 0 0	61,28,24,918 0	31,92,762 0	3,45,496 0 0	*48,33,494 0 0	465,126	703,922	61,169,048
Total for 22 weeks ...	3,095,838	13,85,216 0 0	1,34,51,104 0	33,59,402 0 0	3,74,306 0 0	61,19,044 0 0	488,626	736,070	1,224,696
COMPARISON.									
Total for corresponding week of previous year ...	140,975	78,394 0 0	6,91,535 0	1,94,052 0 0	30,995 0 0	3,03,441 0 0	22,736	39,283	62,019
Per mile of railway corresponding period of previous year ...	197	105 0 0	926 0	260 0 0	111 0 0	376 0 0			
Total to corresponding date of previous year ...	3,136,479	14,29,907 0 0	1,38,25,267 0	34,61,514 0 0	3,97,501 0 0	52,88,022 0 0	496,468	713,594	1,210,062

* Audited up to week ending 4th October 1890.

a Ditto ditto 18th October 1890.

† Excluding steamer earnings.

b Due to moon eclipse and Rashjatra mella.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 30TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 29TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 29TH NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	3,03,441	406	763	3,95,350	374	717	74,23,464	296	760	*75,01,702	282	78,288	.....

* Audited up to week ending 4th October 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 29th November 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	37,090	14,350 0 0	43,593 0	3,110 0 0	740 0 0	18,200 0 0	3,600	2,023	5,623
Or per mile of railway ...	297	115 0 0	349 0	25 0 0	6 0 0	146 0 0	.....	.....	.....
For previous 21 weeks of half-year ...	†492,759	1,75,442 0 0	†8,62,351 0	70,216 0 0	4,487 0 0	*2,50,145 0 0	82,067	31,452	†113,519
Total for 22 weeks ...	529,849	1,89,792 0 0	8,95,874 0	73,326 0 0	5,227 0 0	2,68,345 0 0	85,667	33,475	119,142
COMPARISON.									
Total for corresponding week of previous year ...	27,111	10,188 0 0	38,755 0	2,737 0 0	1,263 0 0	14,188 0 0	3,572	2,100	5,672
Per mile of railway corresponding period of previous year ...	127	82 0 0	310 0	22 0 0	10 0 0	114 0 0	.....	.....	.....
Total to corresponding date of previous year ...	606,017	2,08,195 0 0	12,62,838 0	1,16,192 0 0	4,788 0 0	3,29,175 0 0	77,928	59,388	137,316

* Audited up to week ending 4th October 1890.

† Ditto ditto 18th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 30TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 29TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 29TH NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	14,188	114	125	18,200	146	125	5,00,022	110	125	*4,33,794	99	.....	75,228

* Audited up to week ending 4th October 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 29th November 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	15,921	6,800 0 0	38,518 0	3,600 0 0	90 0 0	10,580 0 0	2,415	1,405	3,820
Or per mile of railway ...	185	80 0 0	448 0	42 0 0	1 0 0	123 0 0	.....	.....	.....
For previous 21 weeks of half-year ...	†317,909	1,03,153 0 0	†4,40,350 0	40,645 0 0	5,441 0 0	*1,49,269 0 0	50,310	15,483	†65,793
Total for 22 weeks ...	333,830	1,10,073 0 0	4,84,868 0	44,245 0 0	5,531 0 0	1,59,849 0 0	52,725	16,888	69,613
COMPARISON.									
Total for corresponding week of previous year ...	20,547	6,452 0 0	45,286 0	4,680 0 0	352 0 0	11,484 0 0	2,495	1,596	4,091
Per mile of railway corresponding period of previous year ...	239	75 0 0	527 0	54 0 0	4 0 0	133 0 0	.....	.....	.....
Total to corresponding date of previous year ...	538,697	1,08,651 0 0	5,64,099 0	47,389 0 0	4,622 0 0	1,60,663 0 0	54,782	21,243	76,025

* Audited up to week ending 4th October 1890.

† Ditto ditto 18th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 30TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 29TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 29TH NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
8	11,484	133	86	10,580	123	86	2,34,941	71	86	*2,41,710	80	6,769	.....

* Audited up to week ending 4th October 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 29th November 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	3,404	Rs. A. P. 1,230 0 0	Mds. S. 9,881 0	Rs. A. P. 560 0 0	Rs. A. P. 30 0 0	Rs. A. P. 1,820 0 0	730	410	1,140
Or per mile of railway ...	125	45 0 0	363 0	21 0 0	1 0 0	67 0 0	.....	.....	.....
For previous 21 weeks of half-year ...	761,198	21,975 0 0	72,16,110 0	11,561 0 0	353 0 0	*33,829 0 0	14,250	7,833	22,083
Total for 22 weeks ...	84,602	23,205 0 0	2,25,991 0	12,061 0 0	383 0 0	35,649 0 0	14,980	8,243	23,223
COMPARISON.									
Total for corresponding week of previous year ...	3,078	1,095 0 0	18,408 0	1,224 0 0	55 0 0	2,374 0 0	586	395	981
Per mile of railway corresponding period of previous year ...	113	40 0 0	676 0	45 0 0	2 0 0	87 0 0	.....	.....	.....
Total to corresponding date of previous year ...	68,256	24,921 0 0	1,90,141 0	13,166 0 0	1,790 0 0	39,577 0 0	12,742	7,762	20,504

* Audited up to week ending 4th October 1890.

† Ditto ditto 18th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 30TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 29TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 29TH NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
27½	Rs. 2,374	Rs. 87	27½	Rs. 1,820	Rs. 67	27½	Rs. 65,456	Rs. 69	27½	Rs. *61,651	Rs. 65	.....	Rs. 3,805

* Audited up to week ending 4th October 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 29th November 1890, on 609 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	175,100	Rs. 292,500	Mds. 2,29,690	Rs. 31,010	Rs. 8,690	Rs. 1,34,690	18,648	12,286	30,934
Or per mile of railway ...	250'50	132'33	328'60	48'66	11'57	192'66	.....	.....	.....
For previous 20 weeks of half-year ...	1,515,620	5,92,789	56,38,054	7,20,090	1,44,607	14,68,386	253,652	251,301	504,953
Total for 21 weeks ...	1,690,720	6,85,289	58,67,744	7,55,000	*1,52,697	15,92,936	272,300	263,587	535,887
COMPARISON.									
Total for corresponding week of previous year, 649 miles open...	79,791	30,324	3,33,235	41,038	7,314	78,676	10,299	13,134	23,433
Per mile of corresponding week of previous year ...	122'94	46'73	513'49	63'23	11'27	121'23	.....	.....	.....
Total to corresponding date of previous year ...	1,759,786	6,65,055	68,87,240	6,75,979	1,77,953	15,18,966	249,439	274,239	523,678

* Steam-boat earnings for the week Rs. 7,000

Ditto ditto to date .. 1,20,040

* Ajodhya bridge earnings for the week .. 2,020

Ditto ditto adjustment .. 900

Total .. 2,920

Ditto ditto to date .. 9,230

Train mileage figures :-

a Bengal & N.-W. Section. Tirhoot Section.

Rs. Rs.

Coaching ... 9,100 9,548

Goods ... 6,260 6,026

Total ... 15,360 15,574

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

RECEIPTS FOR WEEK ENDING 29TH NOVEMBER 1890.			RECEIPTS FOR WEEK ENDING 30TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 29TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH NOVEMBER 1889.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
609	Rs. 1,34,690	Rs. 192'66	649	Rs. 78,676	Rs. 121'23	676	Rs. 29,16,666	Rs. 124'29	649	Rs. 28,34,639	Rs. 125'30	Rs. 82,027	.....

a Increase in passenger traffic this week is due to the fairs held at Ajodhya and Sonapur.

N.B.—Earnings of B. and N.-W. Section.

Week ended 29-11-90. Week ended 30-11-89.

Earnings of Tirhoot Section.

Week ended 29-11-90. Week ended 30-11-89.

Rs. Rs.

Coaching ... 41,740 14,981

Goods ... 13,000 15,241

Other earnings ... 4,400 3,478

Total ... 59,140 33,700

Rs. Rs.

Coaching ... 50,760 15,343

Goods ... 21,610 25,797

Other earnings ... 3,690 3,836

Total ... 75,460 44,976



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, DECEMBER 24, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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LIBERALITY OF BABU RAMESWAR PROSHAD NARAIN SINGH, OF MUKSUDPORE IN THE DISTRICT OF GYA.

No. 4529P, dated Calcutta, the 20th December 1890.

From—SIR JOHN EDGAR, K.C.I.E., C.S.I., Chief Secretary to the Government of Bengal,
To—The Commissioner of Patna.

I AM directed to acknowledge the receipt of your letter No. 3Ct., dated the 11th instant, and to request that you will be so good as to communicate to Babu Rameswar Proshad Narain Singh, of Muksudpore, the Lieutenant-Governor's appreciation of his public spirit and liberality in contributing Rs. 9,000 towards the erection of a building for the accommodation of the Lady Doctor attached to the Gya branch of the Lady Dufferin's Fund and of those native *purdahnashin* ladies who do not wish to go to the common hospital for treatment.

The correspondence will be published in the *Calcutta Gazette*.

No. 3Ct., dated Camp Gya, the 11th December 1890.

From—C. C. STEVENS, Esq., Commissioner of the Patna Division,
To—The Chief Secretary to the Government of Bengal.

I HAVE much pleasure in enclosing a copy of a letter from Babu Rameswar Proshad Narain Singh, of Muksudpore, with which he has sent Rs. 9,000 to the Magistrate of Gya to be spent in providing a building for the accommodation of the Lady Doctor attached to the Gya branch of Lady Dufferin's Fund and of native *purdanashin* ladies who do not wish to go to the common hospital for treatment.

2. The offering is made in commemoration of Sir Steuart Bayley's late visit to Gya, with whose name Babu Rameswar Proshad Narain Singh wishes it to be connected.

3. I would ask you to bring this handsome donation to the notice of His Honour the Lieutenant-Governor, and would suggest that special mention of it should be made in the *Calcutta Gazette*.

4. I ask this more particularly because Babu Rameswar Proshad Narain Singh quite lately gave another handsome donation of Rs. 15,000 towards the Lady Doctor's fund when it was first started—*vide* Government order No. $\frac{1}{2}$ 2, dated 10th April 1890.

RICE CROP OF 1890.

The following papers are published for general information.

REVENUE DEPT., AGRICULTURE,
CALCUTTA;
The 23rd December 1890.

By order of the Lieut.-Govr. of Bengal,
P. NOLAN,
Secretary to the Govt. of Bengal.

Note on the Final Forecast of the winter rice crop, 1890.

SINCE the issue of the preliminary forecast, dated 2nd October, abundant and timely rain has fallen over the whole province. Except in a few districts of North and East Bengal, where the winter rice crop was damaged to the extent of 2 to 3 annas by excessive rain and floods, the prospects of the harvest have been more or less improved by timely rain in the latter half of September and in October in almost every part of the province. Save in the tracts which have seriously suffered from floods, which form a very small proportion of the total area under rice, a full average crop, or more than a full average crop, may now be expected throughout Bengal. In the Sudder and Chuadanga subdivisions of the Nuddea district, in the Bongong and Jhenidah subdivisions of the Jessore district, and in the Sudder and Sewan subdivisions of the Sarun district, the probable outturn, owing to damage by floods, is reported to be only 8 annas or less, and in them there is, as remarked in the *bhadoi* forecast issued on the 30th October, cause for watchfulness on the part of the local authorities.

2. It has not been found possible in the present forecast to estimate, in tons, the total outturn of rice or the probable amount available for export. The safest indication of the amount likely to be available for export is the amount actually exported in past years when the crop was a full average one, as it is in the present year. The figures noted in the margin show the total exports of rice by sea from Bengal for the past five years. Looking to the fact that the character of the winter and *bhadoi* rice of last year was nearly the same as in the present year, it may be assumed that the quantity likely to be available for export in the coming year will be at least as large as in the present year, and will probably be about 10,000,000 cwt.

Total exports by sea from Bengal.

	Cwt.
1886	7,191,703
1887	9,871,103
1888	10,635,218
1889	7,090,919
1890 (for 10 months up to 31st October) ...	7,860,323

M. FENUCANE,
Director of the Department of Land
Records and Agriculture, Bengal.

CALCUTTA,
The 10th December, 1890.

II—Final Forecast of Winter Rice Crop in Bengal for the year 1890.

1	2	3	4	5	6	7	8	9	10	11
DISTRICT.	SUB-DIVISION.	Total area, of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under winter rice.	Approximate area under last year's winter rice.	Estimated area under this year's winter rice.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
BURDWAN	Sudder	1,242	963	663	486	651	Annas. 9	Annas. 14	The crop was affected to some extent by floods and excess of rainfall during transplanting time. The difference between this and the previous forecast is so slight that no explanation is necessary.	In June the rainfall was in excess of the normal, but in July and August, which include the transplanting season, the fall was short of the normal, and not in excess as stated by the Collector, except in the Sudder sub-division, where the fall was in excess in July, but short in August.
	Kaneegunge	671	398	352	352	352	13	15		
	Cutwa	353	265	217	88	214	4	14		
	Culna	432	350	200	133	200	7	16		
	District Total	2,697	2,006	1,432	1,059	1,417	8 to 10	About 15		
BANKOORA	Sudder	1,921	670	670	670	670	12	16	In the current year the weather was favourable, except in the months of August and September, when the young plants suffered to some extent for want of sufficient rainfall. In the Bishenpore sub-division, which differs from the Sudder in agricultural conditions, the unfavourable state of the weather in August and September so far affected the crop as to reduce the outturn formerly estimated from 16 to 14 annas.	The rainfall appears to have been well distributed and in excess of the normal up to end of July: in August the fall was, to judge from the meteorological returns, very deficient. At Bankoora only 4.25 inches of rain were recorded in the first four weeks of August against the normal fall of 13.51 inches, and at Bishenpore, 5.52, against 14.51 inches. The transplanting operations appear to have suffered from this deficiency, particularly in the Bishenpore sub-division.
	Bishenpore	700	350	290	290	290	14	14		
	District Total	2,621	1,020	860	860	860	13	15		
BEERBHOOM	Sudder	1,108	777	604	604	620	16	20	The rainy season has throughout been almost ideally perfect in Beerbhoom. Good rain in June (and very early in June too), very heavy rain in July, good sun in August, sufficient rain in September and a crowning mercy of mild rain in October. It is hardly possible to conceive of better than this. Floods do not trouble this district, and there has been no abnormal condition: the land is bearing about as much as it can produce.	
	Rampore Hat	648	468	350	324	400	15	20		
MIDNAPORE	District Total	1,766	1,245	954	928	1,020	16½	20	Owing to deficiency of rainfall there has been a partial failure of crops almost throughout the whole district. On account of deficiency of rainfall at the time of sowing, the lands could not be wholly cultivated, and again owing to the excess of rainfall in November the crop was damaged to some extent. Owing to rainfall in October some lands that were not cultivated at the time of the former report were cultivated, and hence the difference in area under this year's winter rice.	In the Sudder and Contai sub-divisions the rainfall was very scanty in July and August, only 11.66 inches having fallen at Midnapore during these two months, against the normal fall of 26.42 inches, and 19.5 inches at Contai against 28.63 inches. In Ghatal and Turnook the fall was slightly short of the normal, though quite sufficient in July, but in August it proved to be very scanty (4.25 inches and 6.5 inches against 16.05 and 14.50 inches respectively).
	Sudder	3,282	1,769.6	1,235	1,249	1,252.5	14	14		
	Contai	891	713	645	641	617	13	12		

1	2	3	4	5	6	7	8	9	10	11																		
DISTRICT.	SUB-DIVISION.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under winter rice.	Approximate area under last year's winter rice.	Estimated area under this year's winter rice.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.																		
MIDNAPORE —sondu.	Tumlook ...	620	465	435	436	435	Annas. 14	Annas. 16	Although there was scanty fall of rain during the transplanting season, this part of the district being low, there was no marked damage as was apprehended. The copious fall of rain in September and October did much good to the crops.																			
	Ghatal ...	306	228	206	206	206	13	14	Owing to deficiency of rainfall during the ploughing season and also owing to scantiness of rainfall in September, two annas of the crop on the whole has been damaged.																			
	District Total ...	5,119	3,203.5	2,541	2,524	2,510.5	13½	14																				
	Sudder ...	442	276.25	221	221	221	8	16	The rainfall was scanty all over the district throughout the season, the following being the figures for rainfall in July and August:—																		
MOOJHLY	Serampore ...	343	250	157	157	157	14	16	Deficiency of rain at ploughing and sowing time affected the crop to the extent of two annas, but the balance is an exceptionally fine crop and brings the harvest up to at least an average one.	<table><thead><tr><th></th><th>Actual.</th><th>Normal.</th></tr></thead><tbody><tr><td>Sudder ...</td><td>13.90</td><td>25.22</td></tr><tr><td>Serampore ...</td><td>18.49</td><td>26.09</td></tr><tr><td>Jehanabad ...</td><td>22.89</td><td>29.23</td></tr><tr><td>Howrah ...</td><td>17.88</td><td>25.94</td></tr><tr><td>Oolooberiah ...</td><td>13.86</td><td>28.38</td></tr></tbody></table>		Actual.	Normal.	Sudder ...	13.90	25.22	Serampore ...	18.49	26.09	Jehanabad ...	22.89	29.23	Howrah ...	17.88	25.94	Oolooberiah ...	13.86	28.38
		Actual.	Normal.																									
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	Howrah ...	17.88	25.94																									
	Oolooberiah ...	13.86	28.38																									
Jehanabad ...		262	131	131	131	14	14	A loss of 2 annas is due to deficiency of timely rain and to Damoodar flood.	The crop is likely to have suffered from this cause, especially in the Sudder and Oolooberiah sub-divisions.																			
Howrah ...	171	109	95	88	95	14	16																				
Oolooberiah ...	303	200	170	150	140	16	16	There was deficiency of rain during the rainy season and also later on.																				
District Total ...	1,627	1,027.25	774	747	744	13	About 16																					
24-PERGUEH. —BARRA.	Sudder ...	1,070	717	593	585	590	16	15	The scanty fall of rain at the sowing season and the unequal distribution of rain affected the crop of the current year. The heavy fall of rain followed by the floods in a small area of the Basirhat sub-division reduced the former estimate by one anna.	The rainfall was seasonable and sufficient in May and June. In July and August the fall was scanty, particularly in Baraset. The recorded fall in July and August was 16.79 inches against the normal fall of 23.75 inches.																		
	Diamond Harbour	513	435	443	443	444	16	16																				
	Baraset ...	392	243	183	182	183	16	12																				
	Basirhat ...	530	459	333	309	333	16	13																				
	Barrackpore ...	42	12	6	6	6	16	12																				
	Dum-Dum ...	66	36	34	27	30	16	16																				
	District Total ...	2,603	1,900	1,502	1,552	1,588	16	14																				

KHULNA	Sudder ...	1,572'40	390	305	312	302	15	12	Heavy rain during the sowing season and the floods have affected the outturn of the winter rice crop.	The rainfall during April, May, and June, which include the sowing season, was not particularly heavy in the district, except in June, in the Bagirhat sub-division. The estimates of outturn appear to be too low.
	Sakthira ...	1,273'88	440	321	300	309	14	9		
	Bagirhat ...	1,508'63	520	308	350	300	14	14		
	Area of boundary, khals, and rivers of Sunderbans in this district.	496	.....	.....	.....	.....	.....	.....
	District Total ...	4,349'91	1,359	954	917	911	14	11		
NUBDEA	Sudder ...	701	484	159	159	159	6	3	The rainfall has been favourable to the crop, but a considerable portion of it has been destroyed by the floods. The prospects of the crop in Chuadanga have changed for the better since the date of the first forecast.	The rainfall, although slightly deficient in August, was on the whole favourable. The losses must be wholly ascribed to floods. If the outturn in the Sudder and Chuadanga sub-divisions is as low as reported, there is cause for watchfulness and apprehension of distress.
	Kushtea ...	588*	441*	330*	194	110	8	10		
	Meherpore ...	627	500	62	62	62	12	10		
	Chuadanga ...	437	272	60	60	60	8	3		
	Ranaghat ...	427	256	64	64	64	8	10		
	District Total ...	2,780	1,953	675	449	455	9	About 7		
	Sudder ...	889	475	260	260	260	16	12	The inundation has destroyed about one-fourth of the winter rice crop. For insufficiency of rainfall at the sowing season, a portion of the land annually sown with winter rice remained fallow. The crop has this year been mostly destroyed by the floods.	
	Bongong ...	640	389	250	240	240	10	4		
JESSORE	Narail ...	487	293	200	200	225	18	16	In the first forecast the outturn was estimated at 12 annas, as it was apprehended that the flood would cause much damage to the crops. The prospect has since changed for the better and a 16-anna outturn is estimated. The early inundation has destroyed about a moiety of the winter rice crop.	
	Jhenidah ...	475	317	100	100	100	12	8		
	Magurah ...	425	268	128	128	1	16	14	A little damage has been done by floods.	
	District Total ...	2,925	1,742	947	928	953	144	11		
MOORSHEED-ABAD.	Sudder ...	767	576	84	84	84	8	10	Late sowing owing to deficient rainfall and unusual floods affected the outturn of this year's crop in parts.	
	Lalbag ...	372	223	204	200	198	10	13		
	Jungipore ...	508	351	63	63	63	18	15		
	Kandi ...	612	353	235	235	233	17	18		
	District Total ...	2,159	1,503	586	582	578	14	14		
DINAGEPORE	Whole district ...	4,118	2,600	2,000	1,950	2,000	16	18	There would have been a bumper crop but for the damage done to the crops of lowlands by excessive rain. Excessive but timely rain throughout the sowing season has caused the prospects of the crop this year to be better than those of last year's.	
RAJSHAHYE	Sudder ...	944	588	300	336	309	17	14		
	Natore ...	817	612	590	578	590	14	15	The inundation caused by the heavy showers of the latter part of September has damaged the crop to some extent at the Sudder sub-division, and so the outturn has been reduced by 1½ annas. Though flood has done some injury to the crops both at Natore and Nowgong sub-divisions, still good outturn is expected.	
	Nowgong ...	603	500	300	300	280	20	16		
	District Total ...	2,364	1,700	1,190	1,214	1,170	17	15		

* During the current year Chur Meerchader, having an area of 50 square miles, was transferred from the Rajshahye district to the Kushtea sub-division; hence the increase over those hitherto shown in crop forecasts.

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RUNGPORE	Sudder ...	1,151	900	675	675	675	Annas. 10	Annas. 16	The unusual flood and overflowing of the river have damaged the crop. Owing to this cause the previous estimate of the crop in the Nelpamari, Kurigram, and Gyabanda sub-divisions has been reduced.	
	Nelpamari ...	638	480	365	360	365	12	12		
	Kurigram ...	937	700	500	500	500	16	13		
	Gyabanda ...	760	580	440	440	470	14	13		
	District Total ...	3,486	2,660	1,980	1,975	2,010	13	13½		
BOGRA	Whole district ...	1,452	913	440	440	440	17	13	The rainfall this year was plentiful and timely up to 26th September. Since then excessive falls and floods have destroyed some and damaged more of the crop, especially in the north and north-west of the district, and have reduced the previous estimate.	
FCBNA	Whole district ...	1,847	1,462	639	574	623	13	12	Owing to the excessive rain and sudden rise of the rivers, the standing crops have been further damaged to the extent of 3 annas.	
DAEJEEUNG	Sudder, including Kalimpong ...	726	92	16	16	16	14	12	The heavy rains caused this year's outturn to be less than that of last year. No winter rice crop is grown in the Kurseong sub-division. The crop has suffered less in Siliguri than was expected from heavy rains; hence the increase of the estimate of outturn.	
	Kurseong ...	185	.....	.....	.....	.....	.....	.....
	Siliguri ...	253	180	95	94	93	15	15		
	District Total ...	1,164	272*	111	110	111	14½	14		
JALPAIGURI	Bykantapore ...	447	298	160	160	160	10	14	Rainfall has been heavy but well distributed so far as the rice crop is concerned.	There was a constant downpour of rain in June and July. At Jalpaiguri the rainfall was 40·82 and 41·46 inches in June and July, respectively, against the respective normals of 29·12 and 26 inches. In June there were only three rainless days, and in July only one. The seedlings must have suffered to a certain extent from this cause, and transplantation on lowlands was impeded.
	Boda ...	402·72	295	188	180	181	12	11		
	Patgram ...	86·88	75	48	45	47	12	13		
	Mynaguri ...	524	219	169	125	141	12	14		
	Alipore ...	649	200	120	100	120	12	14		
	Palakota ...	496	170	100	100	100	10	14		
	Bholka ...	132	41	40	40	40	12	14		
	District Total ...	2,737·60	1,391	759	750	789	12	13½		
Dacca	Sudder ...	1,266	633	422	422	422	14	12	Extraordinary high floods and strong gales in September and October caused much damage to this year's crop in the Sudder and Manickrunga sub-divisions, and hence the outturn is reduced.	
	Manickrunga ...	489	366	274	274	274	12	8		
	Mynagunga ...	461	290	87	80	80	12	12		
	Narainunga ...	641	360	90	90	90	16	16		
	District Total ...	2,797	1,559	896	896	896	14	12		

FURRERPORE	Sudder	860	602	451½	429	333	14	10	The plants in low lands have been considerably damaged by floods. The state of winter rice crop in the <i>bil</i> lands is reported to have improved since the submission of the last report. Damaged in places by floods, but on the whole a 14-anna crop may be expected.
	Madaripore ...	979	652	440	440	440	14	12	
	Goalundo	428	331	214	214	214	12	14	
	District Total ...	2,267	1,575	1,105½	1,083	987	13½	12	
BACKERGUNGE	Sudder	1,111	698	459	450	450	16	16	Season conditions have been normal, except that in places slight damage was done by floods.
	Perozepore ...	692	500	370	370	370	14	16	
	Bhola	615	409	250	250	250	16	16	
	Patuakhali ...	1,231	500	350	350	350	16	16	
	District Total ...	3,649	2,698	1,420	1,420	1,420	16	16	
MYMENSINGH	Sudder	1,840	1,070	400	375	400	18	16	The outturn of <i>aman</i> rice crop is expected to be fair. The unusually high flood has not considerably damaged the crop. The crop was affected to some extent on account of excessive rain in September.
	Tangail	1,061	789.75	365	351	365	16	16	
	Jamalsore ...	1,244	990	367	415	289	14	13½	The estimate of 14-anna crop is not likely to have been affected by the rainfall, as was apprehended in the last report.
	Netrokona ...	1,389	694	550	500	500	12	16	
	Kishoregunge ...	744	320	180	175	180	14	14	
	District Total ...	6,287	3,824.75	1,862	1,816	1,734	15	15	
TIPPERAH	Sudder	1,142	856	599	599	599	16	16	Since the submission of the former report timely rain has done much good to the crop. The high flood-water partially damaged the winter rice in some places. Rain at intervals, after the submission of the last report, has improved the condition of <i>aman</i> crop.
	Brammanberia ...	709	553	359	319	375	19	16	
	Chandpore ...	580	415	300	300	300	18	18	
	District Total ...	2,431	1,824	1,258	1,218	1,274	18	About 17*	
NOAKHALLY	Sudder	1,298	1,006	666	578	619	18	13	The decrease in the outturn is due to unequal distribution of rain at the sowing, transplantation, and harvesting time. Excessive rain and flood (and partly insects) have damaged the crop.
	Fenny	343	280	216	216	216	18	12	
	District Total ...	1,641	1,286	882	794	835	18	12½	
CHITTAGONG	Sudder	1,030	611.25	382	382	382	19	16	Heavy rainfall in the months of July and August did not do much damage. The outlook is promising. The season throughout has been a most favourable one. A full harvest is expected.
	Cox's Bazar ...	937	654.78	582	466	582	19	16	
	District Total ...	2,567	1,266.03	964	848	964	19	16	

* This includes the area under tea cultivation.

The Collector's remark as to the irregularity of rainfall in the Sudder subdivision is not at all borne out by the meteorological returns. The character of the rainfall here was the same as in Fenny. There was slight excess of rain (only 3 inches) in Fenny subdivision in July; in June and August it was less than the normal. In September the fall was considerably short, and in October slightly in excess, of the normal. The loss of paddy must therefore be ascribed to floods. In July the rainfall was exceptionally heavy (51.2 inches against 22.13 inches), but in August it appears to have been normal.

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DISTRICT.	SUB-DIVISION.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under winter rice.	Approximate area under last year's winter rice.	Estimated area under this year's winter rice.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
CHITTAGONG HILL TRACTS.	Sudder	3,583'5	43'25	7	7'5	5'8	12	14	The heavy and continuous rainfall throughout the ploughing time and proportional rain after transplantation this year were favourable to the winter rice, and a 14-anna crop may be expected.	The Commissioner remarks that from information received from Mr. Fughe and Captain Shakespear, it seems probable that the crop beyond the frontier will be a bumper one. If the rainfall proved favourable, why should not an average crop be expected?
	Sungoo	1,835'5	23'86	4	4	3'5	12	14		
	District Total ...	5,419	67'11	11	11'5	9'3	12	14		
PATNA	Sudder	617	457	216	216	200	15	14	The outturn has been affected by excessive rainfall and flood, but the fall of <i>hatiya</i> rain has done much good to the crop and increased the estimate to 14 annas. This year's crop has been greatly damaged by flood and excessive rain. Seasonable rainfall at the time of ploughing and transplanting, and the <i>hatiya</i> rains particularly, give hopes of a bumper crop. There having been rain both at the end of September and the second week of October, the outturn of winter rice crop has been put down at 18 annas. The rainfall this year has been very favourable for the winter rice crop throughout the season.	
	Dinapore	143	118	52	52	50	12	10		
	Barh	526	405	120	141	109	13	18		
	Behar	793	575	352	352	352	11	16		
	District Total ..	2,079	1,553	740	761	711	13	15		
GYA	Sudder	1,859	1,434	775	968	775	12	16	Excess of rain at the sowing and transplantation season has caused the decrease in area under winter rice by one-fifth of that of the last year's cultivation. Two annas out of 16 annas were damaged for want of rain in September 1890.	
	Aurangabad ...	1,246	747	336	340	340	12	16		
	Jehanabad ...	907	503	325	325	325	8	14		
	Nowada	1,020	763	573	480	587	14	14		
	District Total ...	4,712	3,440	2,009	2,113	2,027	12	15		

SHAHABAD	Arrah	915	778	889	859'25	890	14	17	The continuous excessive rainfall just after the crop was sown produced the prospects of a bumper crop, but afterwards <i>hathiya</i> rain made up the loss. Late, however, the appearance of a crop disease called <i>dakhinaya</i> has again marred the prospects. The outturn has been a little more than average.
	Buxar	656	563	282	282	282	12	14	The heavy and continuous rainfall is likely to prove favourable to the winter rice, and a 14-anna crop may be expected.
	Sassaram	1,453	850	480	374	415	10	15	<i>Hathiya</i> rain came on copiously, so a good harvest is expected.
	Bhabua	1,301	976	488	400	450	12	18	The rain has been sufficient and, as reported in my first forecast, a bumper crop is expected this year.
	District Total	4,905	3,167	1,689	1,445'25	1,537	12	16	
DURGUNG	Sudder	1,222	929	556	585	585	17	12	Excessive rainfall and floods in August affected the outturn this year. The <i>hathiya</i> rainfall improved the crop of the Samastipore sub-division, but did not fully counteract the damage already done by excessive rain.
	Samastipore (Tajpore)	764	611	259	192	259	16	12	
	Madhubani	1,349	1,100	800	719	700	18	16	
	District Total	3,335	2,640	1,645	1,496	1,544	17	Over 13	
	Sudder	1,218	857	602'52	602'82	580	12	16	Floods swamped large tracts in these two sub-divisions and destroyed the rice crop; hence the area cultivated with rice was reduced. Over the area not affected by floods, a full crop may be expected, the later rain having been most opportune and beneficial.
MOZUFFERSHIRE	Hajepore	771	529'6	204'31	204'31	170	14	14	The rain which has fallen since the last report has greatly improved the condition of the crops, ensuring a good outturn from the late as well as early transplantation.
	Sitamarhi	1,614	770'64	500	481'64	500	16	18	The sub-division suffered very slightly on the whole from the floods, so far as the rice crop is concerned, while the timely and abundant rain at the end of the season has ensured an excellent crop on the higher lands, which form a large proportion of the cultivated area. A more than 16-anna crop is thus expected.
	District Total	3,003	2,257'24	1,307'13	1,285'77	1,230	14	16½	
	Sudder	998	849	225	217	217	14	5	Transplantation was effected with facility owing to favourable rainfall, but subsequently the crop was damaged by heavy rainfall, floods and want of sun. In most low lands the crop was entirely lost. On the floods subsiding transplantation was done again in many places, but the seedlings were destroyed by the floods, and paddy could not be retransplanted in all places. The land where paddy failed will be sown with <i>rahi</i> crops. The <i>hathiya</i> rain exceedingly benefited the rice crop and raised its prospects from 2 annas, as previously estimated, to 3 annas.
	Sewan	553	603	255	255	275	8	8	The continuous heavy rainfall damaged the paddy much, and in consequence the outturn will be less than was estimated before.
SARUN	Gopalgunge	771	550	180	239	180	14	14	The unusually heavy rains in July and August damaged the transplanted paddy, a part of which had to be replanted, and about one-fourth of the whole area under paddy was not replanted at all for want of seedlings.
	District Total	2,622	2,092	660	711	672	12	9	

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CHUMPHUN	Motihari ...	1,518	1,022	350	339	359	16	16	Timely rainfall during the year, especially the fall in the beginning of October, has secured an average crop.	
	Bettiah ...	2,013	1,200	700	700	700	16	16		
	District Total ...	3,531	2,222	1,050	1,039	1,059	16	16		
MONGHYR	Sudder ...	1,559	1,091	436	436	436	12	20	A bumper crop is expected in the Sudder sub-division on account of the opportune rainfall in September and October. In the Beguserai sub-division the crop was damaged to the extent of 8 annas by floods and excessive rain. In Jamui the rainfall was timely and the harvest is expected to be good.	
	Beguserai ...	769	577	21	23	23	16	8		
	Jamui ...	1,593	1,062	700	700	700	14	16		
	District Total ...	3,921	2,730	1,169	1,159	1,139	14	17		
BHAGULPORE	Sudder ...	906	655	555	550	569	10 to 12	16	The rainfall was deficient last year, but favourable this year. Atmospheric conditions were favourable in the past as well as in the present year. The crops of this year were to some extent injured by excessive rainfall in July and August and by subsequent floods, but the injury has been compensated by more transplantation on high lands.	
	Banka ...	1,185	888	687	687	687	10	16		
	Madhepura ...	872	666	318	339	339	16	16		
	District Total ...	2,963	2,055	1,560	1,576	1,605	13	16		
FURNKAH	Sudder ...	2,572	1,590	600	600	600	12	14	The rainfall was favourable both in the ploughing and sowing time, but the flood has destroyed a part of the crop here and there. Floods were more destructive last year in the Sudder sub-division than this year. The rainfall in September has benefited the crops, hence the outturn is expected to be 18 annas. There has been a sufficient and timely rainfall. But in parts of thanas Ranigunge and Matihari there has been a slight damage done to the crops by floods.	
	Kishengunge ...	1,340	900	600	500	600	10	16		
	Arrah ...	1,644	690	400	400	400	17	16		
	District Total ...	4,956	3,000	1,600	1,500	1,600	15	16		
MALDAH	Whole district ...	1,902	1,008	450	450	450	16	18	For sufficient rainfall during the months of September and October the outturn is expected to be 18 annas.	

SOUTHAL PER- GUNJAH.	Dumka	1,429	710	860	854	880	18	18	Owing to abundant and seasonable rain, the former estimate is increased by 2 annas.	The low estimate of outturn for Raj-mahal is not explained by the Deputy Commissioner. In May the fall was slightly deficient (3'18 against 4'93 inches), but was well distributed over the latter half of the month. In June and August the fall was slightly in excess of the normal, and in July slightly deficient. In September and October, the fall was copious and well distributed. On the whole, the fall was such as would meet all the requirements of the crop.
	Deoghur	954	228	108	108	103	16	18		
	Godda	967	078	480	409	450	13	16		
	Rajmehal	740	555	381	381	381	16	12		
	Lakour	883	311	410	410	410	16	18		
	Jamtara	690	195	100	90	100	13	18	The crop in the villages east of the Pakour thana was somewhat injured by flood. Deficiency of rainfall at the sowing time affected the winter rice.	The somewhat low outturn in the Sudder sub-division is due to deficient rainfall at the time of sowing (June, 12'24 inches against the normal, 18'34 inches). The outturn is less than the average in the Kendrapara and Jajepore sub-divisions owing to deficient rainfall in August. In Kendrapara the crops of a portion of the Kujong estate were damaged by the storm-waves of 30th June 1890.
	District Total ...	5,469	2,905	1,809	1,782	1,824	14	About 17		
CUTTACK	Sudder	989	772	678	678	576	16	14		
	Banki	116	60	86	86	86	16	16		
	Kendrapara	1,424	641	511	452	499	12	12		
	Jajepore	1,154	500	450	450	450	16	14		
	Angul ... ..	.....	.....	.....	.....	.....	.....	.....
	District Total ...	3,633	1,973	1,575	1,516	1,561	15	13	The outturn this year is less than average owing to excess of rainfall at the time of sowing and insufficient rain in July, August, and first half of September.	In August the rainfall recorded at Cuttack was in excess of the normal (14'03 against 11'64 inches); at Kendrapara it was 9'12 against 13'24, but not so scanty as to reduce the crop by 4 annas, in July the rainfall having been normal; at Jajepore, there was marked deficiency in August (5'49 against 11'74 inches). The rainfall throughout the season in the Sudder sub-division, although somewhat in excess in July, was very well distributed, and there is no reason why an average crop should not be expected.
BALASORE	Sudder	1,158	670	589	589	589	9	13		
	Bhuddruck	905	720	580	580	580	14	13		
	District Total ...	2,063	1,390	1,169	1,169	1,169	11	12		
POOREE	Sudder	1,530	720	506	506	516	14	16	Owing to excessive rain at the time of sowing up to the present date the outturn of the winter rice crop has been estimated at 16 annas in the Sudder sub-division; but if there be heavy showers or high winds in the present month, the outturn will be much lessened. There is at present (1st November) very unsettled and rainy weather, which, as well as the untimely rain at the end of October, have affected the outturn of Khurda sub-division, where the crop is far advanced.	The rainfall in June was in excess of the normal in all places, but was not of an exceptional character. In July and August, however, the fall was singularly scanty in all places: at Balasore only 5'7 inches fell in July against the normal fall of 11'89 and 7'88 inches in August, against 12'78 inches.
	Khurda	990	418	251	251	251	14	14		
	District Total ...	2,520	1,138	757	757	757	14	15		
	Hazaribagh	4,375	2,593	1,124	1,124	1,124	14	20		
	Giridih	2,445	1,280	555	555	555	18	20		
HAZARIBAGH	District Total ...	7,021	3,873	1,679	1,679	1,679	16	20	Throughout the district the rainfall was excessive both in July and August, and therefore favourable for rice crops both in sowing and transplanting seasons; and as sufficient rain fell both in September and October, a bumper crop is expected this year.	The rainfall in June and July was in excess of the normal. In August the fall was short of the normal; at Hazaribagh it was 10'99 inches against the normal fall of 12'87 inches, and at Giridih 9'2 inches against 11'29 inches, but the fall being well distributed and sufficient, the slight deficiency could do no harm.

1	2	3	4	5	6	7	8	9	10	11
DISTRICT.	SUB-DIVISION.	Total area of subdivision in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under winter rice.	Approximate area under last year's winter rice.	Estimated area under this year's winter rice.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
LOHARDUGGA	Sudder	7,784	1,662	1,455	1,298	1,420	14	14	In the last report the outturn in Palamow was estimated at 14 annas, but subsequently it has been reduced to 12 annas. The showers in the latter part of the season improved the prospects of the crop.	The rainfall in June and July was slightly in excess of the normal and was well distributed; in August the fall was much in excess of the normal at Lohardugga and Palamow, but short at Ranchi. Excess of rain cannot have done harm at this time. No reason is assigned why the crop should be less than the average, or why the previous estimate has been reduced by 2 annas.
	Palamow	4,260	2,000	822	852	800	10	12		
	District Total ...	12,044	3,662	2,307	2,150	2,220	12	13		
MANBHOOM	Sudder	3,344	1,360	600	553	600	16	18	A good crop is expected owing to timely rainfall during the year.	
	Gobindpore ...	803	300	263	133	263	14	16		
	District Total ...	4,147	1,660	863	686	863	15	17		
SINGHBHOOM	Kolhan	1,946	973	450	450	425	13	13	The deficient outturn is due to want of sufficient rain. The crop was slightly improved by the late rain.	In June the rainfall was seasonable and sufficient to judge from the rainfall returns, but in July it was rather scanty, 9·42 inches against 14 inches at Chyebassa. In August and up to the 12th September the fall was still scantier, only 3·2 inches having been recorded at Chyebassa in August, against the normal fall of 15·2 inches and 1·06 inch in the first 12 days of September against the normal fall of 4·32 inches.
	Pornahat	660	247	150	150	150	15	14		
	Dhalbhoom ...	1,147	573	400	400	400	18	16		
	District Total ...	3,753	1,793	1,000	1,000	975	16	Above 14		
	Total for all Bengal ...	152,840·51	86,968·88	53,159·63	50,401·52	51,369·8	14	15		

NOTE.—Twenty annas to be taken as representing a bumper crop, 16 annas an average crop, and 12 annas three-fourths of an average crop.

DIVISION.	District.	MAY.		JUNE.		JULY.		AUGUST.		SEPTEMBER.		OCTOBER.	
		Normal average.	Actual rainfall.	Normal average.	Actual rainfall.	Normal average.	Actual rainfall.	Normal average.	Actual rainfall.	Normal average.	Actual rainfall.	Normal average.	Actual rainfall.
BURDWAN	Burdwan	5.01	3.07	9.23	20.40	11.80	16.56	12.36	6.86	7.87	11.40	4.16	4.27
	Bankoora	4.63	4.58	9.56	13.80	13.12	16.29	13.78	4.46	8.53	9.95	3.77	5.04
	Beerbhoom	3.40	2.38	9.10	17.41	12.85	14.92	13.67	11.91	9.16	10.21	3.41	3.37
	Midnapore	5.05	6.84	9.59	15.04	13.76	6.47	13.25	6.90	8.55	9.66	5.26	7.85
	Hooghly	5.34	4.93	9.75	14.91	12.71	9.74	14.21	8.57	8.43	9.02	4.07	5.70
	Howrah	5.81	4.60	9.45	20.29	13.13	7.34	14.28	8.12	8.04	9.99	3.63	5.39
PRESIDENCY	24 Pergunnahs	5.79	6.04	9.83	12.09	12.97	8.94	13.72	10.64	9.62	10.06	4.46	10.93
	Nuddea	6.61	6.82	12.44	16.63	13.45	12.95	12.43	9.10	9.33	5.78	4.52	7.13
	Jessore	7.01	5.72	12.10	14.74	10.55	10.84	11.54	10.11	8.43	5.12	4.45	8.61
	Moorshedabad	5.21	2.44	9.05	11.93	11.00	17.37	11.79	11.11	9.77	9.40	4.37	7.18
RAJSHAHYE	Dinagopore	6.45	6.14	13.25	16.53	12.14	16.80	11.87	16.16	11.17	17.42	3.44	11.45
	Rajshahye	6.69	5.41	10.26	19.16	11.82	20.58	11.48	8.44	11.35	15.53	4.53	10.23
	Rungpore	11.24	8.65	21.49	27.71	13.99	14.30	12.35	14.33	13.90	25.96	4.46	14.66
	Bogra	7.91	6.04	13.31	16.07	13.69	13.39	11.81	14.69	10.70	17.03	4.34	11.69
	Pubna	7.11	7.08	11.32	16.50	10.83	10.60	11.95	9.16	10.27	12.34	4.43	5.63
	Darjeeling	7.70	5.96	24.02	27.59	30.36	53.96	23.67	20.55	17.42	6.09	6.10	10.62
	Julpore	11.96	7.47	29.12	40.82	26.06	41.46	25.91	31.07	23.50	21.27	5.25	18.20
DACCA	Dacca	8.79	11.87	12.91	12.56	13.84	15.25	12.38	12.32	10.05	3.93	4.61	5.35
	Furzedpore	8.80	6.44	12.61	9.07	12.49	11.99	12.98	10.31	8.68	3.61	4.24	7.78
	Backergunge	7.80	6.40	18.66	16.79	18.78	19.70	16.14	12.33	11.36	7.17	5.62	7.46
	Mymensingh	9.94	11.06	17.42	20.49	13.55	17.86	14.07	12.93	12.94	9.92	5.32	9.35
CHITTAGONG	Tipperah	10.21	10.20	17.21	14.07	15.27	17.82	16.37	11.77	11.58	4.79	5.28	6.62
	Noakhally	10.05	10.78	24.18	17.93	21.82	29.26	23.49	21.98	16.26	12.18	7.37	9.57
	Chittagong	6.64	4.11	26.32	23.35	25.62	49.23	23.48	23.74	14.07	11.27	6.60	4.95
	Chittagong Hill Tracts.	...	...	...	...	...	...	...	...	...	...	...	...
PATNA	Patna	2.18	2.15	5.65	8.93	12.12	15.66	10.58	13.33	7.20	7.12	2.97	1.18
	Gya	1.74	1.91	5.52	12.68	11.83	18.14	11.71	20.88	6.90	5.04	2.58	9.42
	Shahabad	1.39	0.70	5.30	10.39	11.97	19.72	11.40	12.79	7.29	7.76	3.19	1.39
	Durbhunga	2.68	2.46	8.00	11.22	11.60	23.12	10.71	15.49	9.25	5.55	2.72	1.87
	Mozufferpore	2.21	2.44	7.08	8.46	11.26	20.44	10.11	13.23	8.27	7.03	3.03	1.91
	Saran	1.92	2.19	6.39	10.04	11.41	17.56	10.21	13.80	7.68	8.69	3.74	1.50
	Chumparan	2.60	3.95	8.31	12.81	12.12	23.25	12.18	14.10	9.05	8.85	3.46	5.56
BHAGULPORE	Monghyr	2.34	2.67	6.58	15.18	11.80	18.88	11.21	10.80	7.75	5.87	3.13	2.25
	North Bhagulpore	3.96	2.66	8.71	10.05	11.91	25.20	11.87	14.19	9.76	8.56	3.36	2.19
	South ditto	2.64	4.38	7.77	9.98	10.91	14.72	11.24	13.71	7.98	4.73	3.64	4.39
	Purneah	5.50	4.38	12.98	20.30	15.47	21.44	14.63	22.42	13.63	18.19	3.45	8.94
	Maldah	4.50	4.64	10.60	11.26	11.50	11.29	12.03	10.66	10.52	12.95	3.62	7.60
	Sonthal Pergunnahs.	3.75	3.14	8.59	15.10	12.97	15.99	12.79	13.20	8.96	6.89	3.62	10.02
ORISSA	Cuttack	3.95	4.26	9.12	7.80	12.20	13.27	12.20	8.88	9.53	16.74	5.69	7.46
	Balasore	4.95	5.23	8.25	13.39	12.29	6.72	11.77	7.42	11.28	18.35	5.86	9.54
	Pooree	2.76	2.17	7.89	10.06	10.65	16.79	11.46	10.85	9.98	15.81	7.42	10.84
CHOTA NAGPORE	Hazaribagh	2.33	1.18	7.90	11.03	13.40	17.68	13.67	9.94	8.19	7.37	3.26	1.61
	Lohardugga	2.35	1.15	7.00	7.92	12.94	16.13	12.51	17.95	8.94	5.39	2.47	1.35
	Manbhoom	3.25	2.80	8.42	12.73	11.53	11.16	12.87	8.31	7.68	5.75	3.68	3.14
	Singbhoom	4.17	4.25	8.01	9.04	14.09	9.42	13.78	3.48	8.38	7.18	2.94	1.73

Final Note on the outturn of the bhadoi crops, 1890.

At the time of the preparation of the preliminary *bhadoi* forecast (15th September), most of the *bhadoi* crops had been harvested, and the remainder was nearly ready for the sickle. Deficiency or excess of rainfall after that date could not have affected these crops to any appreciable extent. The estimates of outturn consequently remain unaltered except in a few districts where slight changes have been made, as the result of further enquiries instructed by the local officers since the submission of their preliminary forecasts.

M. FINUCANE,

Director of the Dept. of Land

Records and Agriculture, Bengal.

CALCUTTA,

The 10th December 1890.

II(a).—Final report on bhadoi crops in Bengal, 1890.

1	2	3	4	5	6	7		9	10	11	12
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under bhadoi crops.	Approximate area under last year's bhadoi crops.	Estimated area under this year's bhadoi crops.	Names of principal bhadoi crops.	Taking 10 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 10 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
BURDWAN	Sudder ...	1,242	993	139	111	130	Early paddy— Aus, kelash and nehali.	10	12	The crops were partially affected by excess of rainfall at the sowing time and by floods before harvesting time.	
	Raneegunge ...	671	398	30	30	30	Aus paddy ... Biri kalai ... Jowar ...	13	15		
	Cutwa ...	353	285	33	22	32	Early paddy— Toron ... Nehali ... Jhanti ... Kalai ...	8	12		
	Culna ...	432	350	100	89	100	Aus paddy ...	10	16		
	District Total ...	2,697	2,066	302	243	292		10½	14		
BANKOORA	Sudder ...	1,921	670	45	45	45	Early paddy— Aus, kelash, tetko and chali.	14	16	Deficiency of rainfall in August and September affected to some extent the growth of the plants, or there would have been a bumper crop.	
	Bishenpore ...	700	350	43	43	43	Aus and kelash paddy	16	16		
	District Total ...	2,621	1,020	88	88	88		15	16		
BEERBHOOM	Sudder ...	1,108	777	170	173	157	Bhadoi paddy— Aus, bora ... Tora ...	16	20	The rainy season has throughout been almost ideally perfect in Beerbhoom.	In the latter half of June and throughout July the rainfall was considerably in excess and incessant in the Sudder sub-division. In the Rampore Hat sub-division, there was considerable excess in June, but in July the fall was nearly normal. Some damage is likely to have been caused in the Sudder sub-division by excess of rainfall.
	Rampore Hat ...	648	468	73	64	69	Bhadoi paddy— Aus, kalma ... Mahapal ... Bonous ... Neyali ... Bhoosa ...	15	20		
	District Total ...	1,756	1,245	243	237	226		More than 15	20		
	Sudder ...	3,252	1,799½	419	390	399	Aus paddy ... Til ... Jowar ... Biri ... Aus paddy ... Biri ... Til ... Hemp ... Jute ... Aus paddy ...	13½	10 13 9 13 10 8 16 12 12		
MIDNAPORE	Contai ...	881	713	68	60	58		14½	16	Deficiency of rainfall at harvesting time is the cause of short outturn.	
	Tumlook ...	620	465	38	38	38		15	8		
	(Bhatal ...	368	228	22	22	22	Aus paddy ... Jhanji and guji amla...	12	16		
	District Total ...	5,119	3,205½	547	519	517		14	13		

1	2	3	4	5	6	7	8	9	10	11	12
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal crops.	Approximate area under bhadol crops.	Estimated area under this year's bhadol crops.	Names of principal bhadol crops.	Taking 10 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 10 annas to represent the average outturn, how many annas will present this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
HOOGHLY	Sudder	442	276.23	55.25	55.25	55.25	Aus paddy	6	10	The crop was affected by deficiency of rainfall at the ploughing and sowing time. There was some loss in consequence of deficient rainfall after sowing.	
	Serampore	349	250	30.25	30.25	30.25	Ditto	12	12	Damodar flood caused great damage to the crops before harvesting.	
	Jetanabad	483	262	87	87	87	Ditto	16	8		
	Ooleberiah	3.3	200	25	25	18	Aus and kailos paddy	18	14		
	Howrah	171	100	18	16	17.50	Aus paddy	14	16		
	District Total	1,627	1,007.25	215.50	210.50	208		13	12		
24. FERDUNAH	Sudder	1,070	717	65	55	48	Aus paddy and boro	15	14	The scanty fall of rain at the sowing time has affected the crops of the year under report.	
	Diamond Harbour	513	453	5	12	5	Ditto	14	12		
	Barnet	392	243	60	60	60	Aus paddy and boro	10	12		
	Basirhat	530	435	45	70	45	Ditto	15	13		
	Barnaklore	43	12	5	5	2	Aus paddy	10	9		
	Dum-Dum	56	56	5	3	4	Ditto	12	12		
	District Total	2,601	1,600	182	203	151		14	13		
KHOOLKA	Sudder	1,572.40	36.0	21	21	21	Aus, boro, and kurnoum rice.	11	8	Heavy rain during the sowing season and the flood at the harvesting time have affected the outturn.	
	Satkhira	1,275.88	440	40	40	40		11	8		
	Bagrihat	1,205.63	225	70	70	70		...	...
	Area of boundary khals and rivers of Sunderbans in this district.	458	...	...	...	...		...	...
	District Total	4,507.91	1,350	131	131	131		10	8		
SUNDERA	Sudder	701	451	291	291	291	Aus paddy	8	4	The crops were damaged more or less by flood.	
	Kushtea	588+	441+	530	200	210	Indigo	...	...
	Meherpore	627	500	440	440	440	Aus paddy	...	...
	Chundangah	437	272	200	200	200	Indigo	...	...
	Ranaghat	437	255	192	192	192	Aus paddy	...	...	The prospects in Chundangah have since been improved.	
	District Total	2,780	1,953	1,453	1,382	1,313		8	5		
SUNDERA	Sudder	889	475	210	210	210	Aus paddy	12	12	Timely rainfall during the ploughing and sowing seasons gave satisfactory results.	
	Bangong	649	389	191	191	191	Aus paddy	14	8	The floods of the year having appeared at a time when the crop was not fit for the sickle, greatly damaged the crop. About 2 annas of the sown crop have since the sowing of the flood been gathered. Hence the outturn of the year has increased.	

JESSORE	Jhenidah ...	475	317	60	60	60	Aus paddy ...	12	6	The early inundation has destroyed the greater part of the aus paddy which was about to be harvested. In the second forecast of jute, 16 annas were shown to be the estimated outturn, but the early inundation has since destroyed about 3 annas of the crop; hence the difference. Early rise of water first destroyed the plants when they were young, and subsequent flood destroyed the ripe paddy. The crops were affected by excess of rainfall at harvesting time and by flood.
	Narail ...	487	263	30	30	28	Jute ...	12	13	
	Magurah ...	425	268	84	84	84	Aus paddy ...	6	8	
	District Total ...	2,925	1,742	578	578	576	Jute ...	12	14	
MOORESHEDABAD	Sudder ...	767	576	320	320	320	Til ...	4	8	Deficiency of rain at ploughing and sowing time caused late sowings. Floods caused most damage being early, and catching the crop which was late, on account of the sowings being late.
	Lalbagh ...	572	223	74	74	74	Indigo ...	13	6	
	Jungipore ...	598	351	120	120	120	Aus paddy ...	8	4	
	Kandi ...	512	353	41	41	38	Shama ...	10	9	
DINAJPUR	District Total ...	2,139	1,503	555	555	550	Kodo ...	8	7	Last year the estimated area under bhadoi crops was shown in the bhadoi forecast as 440, which I find on enquiry to be too large. There has been some loss by flood; but when the crop has been secured, it has been better than I anticipated, and the estimate of 18 annas, I think, is pretty correct.
	Sudder ...	4,118	2,300	200	200	200	Early paddy— Sandhomain Guni Tari Chabira Jaura Jhanti	9	7	
	Thakurgaon ...	4,118	2,300	200	200	200	Aus paddy ...	8½	18	
	Whole district ...	4,118	2,300	200	200	200	Jute ...	6	18	
RAJSHAHYE	Sudder ...	944	588	273	249	273	Aus paddy ...	13	10½	Owing to the timely rainfall both at the ploughing and sowing seasons, the outturn this year was expected to be a good one, but early floods had greatly injured the crops.
	Natore ...	517	612	153	213	200	Jute ...	10	14	
	Nowgong ...	603	500	250	250	250	Boro paddy ...	10	8	
	District Total ...	2,064	1,700	676	712	723	Kaon ...	10	8	
RANGPORE	Sudder ...	1,151	900	290	290	290	Til (gingelly) ...	7	8	Unusual rains have damaged the crops to some extent.
	Nelphamari ...	638	430	115	120	115	Kaon ...	8	14	
	Kurigram ...	937	700	400	400	360	Jute ...	10	14	
	Gaibanda ...	780	580	440	230	285	Aus paddy ...	12	16	
BOGRA	District Total ...	3,486	2,660	1,245	1,040	1,050	Jute ...	16	16	Plenteous rain fell during the spring enabling ryots to get on well with their ploughing. The seed of both the crops germinated well and the later rains fully matured them. Some loss was caused by floods, but they came too late to destroy much of these crops. In respect to the outturn, later information has resulted in slight changes. The figures in columns 8, 9, and 10, and this year's estimated outturn of aus, have been revised on further enquiries being made.
	Whole district ...	1,432	913	220	220	220	Aus paddy ...	14	14	
				120	120	140	Jute ...	15	15	
							Aus paddy ...	14	15	
		1,432	913	340	340	360	Jute ...	15	15½	

* This includes Sunderbans, 2,772.91 square miles appertaining to this district.

† During the current year Chur Murchadani, having an area of about 30 square miles, was transferred from Rajshahye district to Kushtia subdivision; hence the increase.

1	2	3	4	5	6	7	8	9	10	11	12
DISTRICT.	Subdivision.	Total area of subdivision in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under bhadoi crops.	Approximate area under last year's bhadoi crops.	Estimated area under this year's bhadoi crops.	Names of principal bhadoi crops.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
FURNA ...	Pubna ... Serajgunge ...	1,847	1,462	536	666	406	Aus ... Jute ...	Annas. 7 13	Annas. 10 14	Excessive rainfall and high floods damaged the crops at harvesting time. The estimate has been reduced owing to damage by high floods.	
DARJEELING ...	Sudder, including Kalimpong.	726	92	47	45	47	Maize paddy ... Marua ... Raon ... Fafar (P) ...	13	12	Owing to the very heavy and incessant rains the outturn is one anna less than that of last year.	Maize, marua and potatoes are known to be grown in the hills within the jurisdiction of Kurseong. The area under these crops is evidently left out in estimating the total area under cultivation.
	Kurseong ...	183	Very little; about 8 acres, or '01 square mile only, is under cultivation.				Paddy ...	12	12	On account of sufficient rainfall at the time of sowing, the outturn is good.	
	Siligoree ...	253	180	85	100	100	Jute ... Paddy ... Marua ... Maize ...	15	10	Excessive rainfall from the very beginning of the season was a great obstacle to the full growth and development of the plants; consequently the outturn is much less than the average.	A 12 anna crop in Kurseong cannot be said to be a good one. The crops are likely to have been damaged by excessive rainfall.
	District Total ...	1,164	372*	132	145	147	.....	More than 13	About 12		
JULPIGOREE ...	Ryantpore ...	447	298	138	138	138	Early paddy— Shoni ... Jonera ... Jute ...	12	14	Rainfall has been heavy, but well distributed so far as the rice crop is concerned. Jute was adversely affected at the commencement of the season.	
	Boda ...	43'72	295	85	85	90	Betri paddy ... Jute ...	12 7	8 14		
	Patgram ...	88'88	75	18	18	20	Betri paddy ... Jute ...	10 10	11 14		
	Mynaguri ...	524	219	62	54	78	Aus paddy ... Jute ...	12 12	14 12		
	Alipore ...	649	200	30	25	30	Early paddy— Kaladamra ... Dhaladamra ... Kanaibasi ...	11	12		
	Fallakota ...	496	170	20	20	20	Jute ... Early paddy— Nilpai ... Malsara ... Sesapol ...	8 8	10 12		
	Bhalka ...	132	41	5	5	3	Jute ... Early paddy— Maldai ...	16 12	12 12		
	District Total ...	2,737'60	1,301	353'5	340'5	376'3	Jute	12 11	14 12		
	Sudder ...	1,266	633	211	211	211	Early paddy, viz.— Goria ... Moochakani ... Shail ... Kalamani ... Poranghi ... Sharta ... Kalathore ... Punkaich ... Jute ... Grass ... Sugarcane ...	14 14 16 11	12 12 8	The unusual rise of the rivers has affected every crop. It has damaged the jute crop on low lands and the grass to a greater extent than was anticipated in the preliminary forecast.	

Dacca ...	Manickgunge ...	489	368	46	46	46	Early paddy, viz.— Kalamanic ... Poranghi ... Shaita ... Gareswar ... Karchamari ... Sandhamaller ... Jute ... Aus paddy ... Digher paddy ... Grass ... Sugarcane ...	10	6	The prospects of aus paddy this year were much better than last year, but the extraordinary high flood of the current year damaged the crop very much. The unusual rise of the rivers has affected every crop, especially the sugarcane.
	Munahgunge ...	401	290	100	80	100	Early paddy, viz.— Bonijari ... Saita ... Alechahya ... Maislarna ... Sarsuful ... Kaminisail ... Kaktara ... Ghamora ... Chinan ... Tengair ...	12	12	
	Narsinggunge ...	641	360	80	80	80		12	10	
	District Total ...	2,797	1,559	437	417	437			11	
FURREEDPORE ...	Sudder ...	660	602	83	54	54	Early paddy— Aus, boro, asni, degha ... Ditto ...	8	8	The crop was affected by floods. A further damage of two annas was done to the crops of the Madaripore sub-division since the first forecast.
	Madaripore ...	579	652	64	64	64	Early paddy— Paranghi ... Karchamuri ... Gareswar ... Kedachak ... Kumrail ... Pakhiraj ... Binnaful ... Satia ... Lakhijata ... Kajjuri ... Sada ...	8	8	
	Goalundo ...	428	321	142	142	142		7	8	
	District Total ...	2,267	1,575	292	260	260		About 8	8	
BACKERGUNGHE ...	Sudder ...	1,111	698	130	150	130	Aus ...	12	16	Floods interfered to some extent with sowings in the Sudder. In general rainfall has been normal, and a full average crop has been reaped.
	Perozepore ...	692	500	90	90	90	Aus ...	12	16	
	Patuakhali ...	1,231	500	46	46	46	Aus ...	14	18	
	Bhola ...	615	400	100	100	100	Aus ...	16	16	
	District Total ...	3,649	2,098	366	396	366		13½	16	
MYNENSINGH ...	Sudder ...	1,849	1,070	370	270	370	Early paddy— Hapa ... Boalia ... Boron ... Bailam ... Gayal ... Bhadari, &c. ... Aus paddy ...	16	14	Two annas has been lost owing to excessive rain during the sowing time and also owing to the early rise of the river with high floods. The yield of the aus crop was fair in spite of the early high rise of the rivers.
	Tangail ...	1,041	780.75	295	293	295	Early paddy— Chitri ... Gayal ... Balaram ... Baran ... Daria ... Jabarshail ... Subarna kharika, &c. ...	10	12	
	Jamalpore ...	1,244	930	277	277	277	Early paddy— Bogi ... Boalia ... Bhadua ... Gayal, &c. ...	12	12	
	Netrokona ...	1,389	694	105	105	105		12	16	
	Kishoregunge ...	744	350	100	80	90	Aus paddy ...	12	12	Excessive rainfall at the sowing and harvesting season caused some damage. The crop was not affected by floods.
	District Total ...	6,267	3,824.75	1,147	1,025	1,137		12½	13	

* The total area estimated to be under cultivation (272 square miles) excludes the area under tea.

1	2	3	4	5	6	7	8	9	10	11	12
DISTRICT.	Subdivision.	Total area of subdivision in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under bhadoi crops.	Approximate area under last year's bhadoi crops.	Estimated area under this year's bhadoi crops.	Name of principal bhadoi crops.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
TIPPERAH	Sudder	1,143	856	171'3	171'3	171'3	Early paddy— Kamini shail ... Kali do. ... Dhali do. ... Kacholani ... Bailam ... Muri ...	14	12	Owing to excessive rain and inundation the crops were partially damaged in some places at the harvesting time.	
	Brahmanberia	769	553	138'42	138'42	138'42	Early paddy— Jeto jali ... Asari do. ... Satia do. ...	18	12	Frequent rains during the time of sowing and weeding and the flood reduced the yield.	
	Chandpore	580	415	60	60	60	Aus paddy ...	16	14	Flood in harvesting time reduced the yield.	
	District Total	2,491	1,824	369'72	369'72	369'72	.....	16	About 13		
NOAKHALLY	Sudder	1,298	1,000	238	324	238	Early paddy— Sholoi ... Green ... Bailam ... Sultanbhoog ... Shatia ... Kalimooga ... Harali ...	15	10	Excessive rain in March while sowing was going on, and in July and August while the crops were being cut and harvested, affected the outturn.	
	Fenny	543	280	85	85	85	Early paddy— Chogal ... Sholoi ... Shatia ... Bailam ... Bhadori ...	12	13	The crop has been damaged by excess of rain, flood and insects, to the extent of four annas.	
	District Total	1,641	1,280	323	409	323	.....	13½	11		
	Sudder	1,630	611'25	152'8	152'8	115	Early paddy— Bailam ... Chiknal ... Khaisa ... Shaitha ...	18	12	Heavy rainfall in June and July affected the crop injuriously, and the yield has not been more than 12 annas this year.	
CHITTAGONG	Cox's Bazar	937	654'08	20'15	20'15	20'15	Early paddy— Pania paddy ... Khaisa ...	18	18	This has been a favourable season.	
	District Total	2,567	1,265'03	172'95	172'95	135'15	.....	18	15		

The cause for the decrease in the area sown this year, as compared with the normal area under bhadoi crops, is not shown.

To judge from the rainfall records there was no excess of rain in the Chittagong district in June; the recorded fall in this month was short of the normal at every station except Cox's Bazar, where the excess amounted to only 1 inch. At Chittagong the deficiency was nearly 6 inches, and the number of rainy days fewer in the month.

In July the fall was excessive, being 49'23 against 28'52 inches.

District.	Subdivision.	3	4	5	6	7	8	9	10	11	12
		Total area of subdivision in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under bhadoi crops.	Approximate area under last year's bhadoi crops.	Estimated area under this year's bhadoi crops.	Names of principal bhadoi crops.	Taking 10 annas to represent the average outturn, how many annas will represent last year's outturn.	Taking 10 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by District Officer.	Remarks by the Agricultural Department, Bengal.
SHARADHANGA	Khabua	1,301	976	122	120	115	Serha paddy Sathi do. Sama Maize Serha paddy Sathi do. Sama Maize Tanguan millet	18	2	The crops were affected by excessive rainfall at the time of sowing as well as afterwards, and also by flood in the country to the north of the Grand Trunk Road.	
	Sasseram	1,403	850	87	78	68		14	6	The deficiency in the outturn is due to excess of rain-water at the time of sowing, and subsequently the crops suffered a good deal from floods in low lands and excessive and constant rain.	
	District Total	4,385	3,157	421	359.75	309.5		13	3	The Subdivisional Officer reports that from his personal enquiry it appears that Kothias pergunnah had an outturn of 14 annas which has increased the estimate.	
	Sudder	1,222	829	223	222	222	Maize Maize Gambri paddy Aus Sama Kham Maize Maize Sama Maize Maize Gambri paddy Sathi	18	12	The bhadoi crops were sown under most favourable circumstances, but excessive rainfall and floods in August affected the outturn.	
MOZUFFERSHIRE	Samastipore	764	611	336	300	318		18	18		
	Madhubani	1,349	1,100	310	270	290		14 to 18	10		
	District Total	3,335	2,860	935	862	810		About 17	About 13		
	Mozuffere	1,218	967.83	295.37	265.57	265.37		6	8	Later reports show the outturn to have been better than at first anticipated. The excessive rainfall and floods caused serious alarm at the prospects of the crops, and led to the formation of a lower estimate of the outturn than the facts really warranted.	
MOZUFFERSHIRE	Hajepore	771	529.6	308.4	308.4	308.4		10	4	The former estimate of six annas was my own, but in view of the Subdivisional Officer's report and of the destruction of the crops over a large proportion of the area shown in column 7, I accept the local estimate of four annas.	
	Siamarhi	1,014	770.64	302	259	300		16	8	Floods after the last report, together with heavy rain, caused further damage and reduced the outturn.	
	District Total	3,003	2,257.24	875.37	923.97	875.37		More than 16	64		

* This area is twice cropped, being sown with bhadoi and rabbi in succession.

1	2	3	4	5	6	7	8	9	10	11	12
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under bhadoi crop.	Approximate area under last year's bhadoi crops.	Estimated area under this year's bhadoi crops.	Names of principal bhadoi crops.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
BHAGULPORE —contd.	Madhepura ...	872	596	175	175	175	Marua	Annas. 10	Annas. 12	Marua has been affected by excess of rainfall at harvest time, and bhadoi paddy was slightly damaged by heavy flood. Insufficient rainfall at ploughing time, unequal distribution at the sowing time, and continued rain in July and August, caused injury to marua plants; but the conditions were beneficial to the bhadoi paddy, which was further improved by a good deal of hativa rain. The estimated outturn of this crop has been therefore increased by 2 annas.	In Madhepura the rainfall was in excess in June (13.61 against 8.33); in July it was still heavier (23.5 against 12), but there was plenty of fine weather, the number of rainy days being only 13 against 15.4; hence the bhadoi crops did not suffer so much here as in other parts of the district from excessive rainfall. In August the fall was normal with plenty of fine weather. There was no rain in the first-half of September. It does not therefore appear how marua harvest can have been interfered with by excess of rainfall at harvest time. The injury was probably caused by excess in June and July.
	Socpote ...	1,275	954	280	239	239	Bhadoi paddy	16	16		
							Bhadoi paddy	16	16		
							Marua	8	8		
	District Total ...	4,258	3,065	985	934	939		About 13	About 12		
FURNEAH	Sudder ...	2,572	1,590	700	643	650	Aus paddy	8	12	The rainfall was on the whole favourable both in ploughing and sowing time, but damage was done at the harvesting time by flood caused by excess of rainfall. This caused the deficiency of four annas.	The rainfall in the Sudder and Kishengunge sub-divisions was very heavy in June (20.1 and 25.4 against 10.8 and 15.3 inches respectively) and moderately heavy in July; but no injury from this excess is noticed by the Collector.
						Mung					
						Marua					
						Sama					
	Kishengunge ...	1,340	900	180	130	150	Aus paddy	12	14		
FURNEAH	Arrareah ...	1,044	600	150	130	110	Aus paddy	10	14	Timely fall of rain benefited the crops. Had it not been for the floods in thana Motiari and a part of thana Ranigunge, the outturn of this year's crops would have been a bumper one.	
						Marua					
						Sama					
						Moong					
	District Total ...	4,856	3,000	1,030	903	940		10	More than 13		
MALDAH ...	Whole district ...	1,902	1,008	425	422	425	Bhadoi paddy	8	6	Just after sowing, the crops suffered to some extent from the rains being partial, and when earing, the unusual and untimely inundations damaged them to a great extent. Jute and mulberry were not so much damaged as was originally expected.	The cause of the low outturn is not understood. In June and July the rainfall was nearly normal, and there was no unusual stretch of rainless weather. The injury from inundation to the winter rice crop appears from the winter rice forecast to have been small; it should be less in the case of upland bhadoi crops.
						Shama					
						Kheri					
						Maize					
		1,002	1,008	425	422	425	Jute	8	15		
							Mulberry	8	15		
SOUTHAL PERGUNNAHS.	Dumka ...	1,420	710	330	334	380	Gundli	14	6	The excessive rain has done considerable injury to maize.	
						Maize					
						Marua					
						Kodo					
	Deoghur ...	954	258	40	40	40	Maize	16	4	Ditto ditto.	
SOUTHAL PERGUNNAHS.	Godda ...	967	676	200	135	125	Gondli	10 to 12	8	Ditto ditto.	
						Marua					
						Maize					
						Jati dhan					
	Rajmahal ...	740	555	104	104	104	Gondli	12	13	Ditto ditto.	
	Pakur ...	683	511	170	170	170	Maize	8	6	The moong has been affected by excess of rain, and the aus rice destroyed by floods.	

CUTTACK	Jamtara	698	195	50	50	45	Maize	17	12	The crops were damaged by excessive rain.
	Gondli						Gondli			
	Marua						Marua			
	Kodo						Kodo			
	District Total ...	5,469	2,905	924	853	873		13	2	
	Sudder	989	772	180	180	178	Beali jute and mandia paddy.	18	12	The outturn of beali crop is below average in all the sub-divisions except Banki. This is due to the fact that the crop suffered much for want of rain at the time of maturity.
	Banki	116	60	10	10	10	Beali and mandia ...	16	16	
	Kendrapara	1,424	641.5	101	97.25	98	Beali (early and bara)	10	12	
							Beali paddy	16	9	
	Jajpore	1,164	560	50	50	50	Mandia	20	16	
							Now Biri	20	16	
							Jute	12	12	
							Early paddy	12	12	
	Angul						Maize	4	4	
							Shama	2	2	
BALASORE	District Total ...	3,633	1,973.5	341	337.25	336		15	About 12	
	Sudder	1,188	670	35.5	35	35.5	Beali rice	12	12	Deficient outturn is due to insufficient rain in August, i.e. at the time when the crops were in ear.
	Bhudruk	908	720	140	140	140	Ditto	16	12	
	District Total ...	2,086	1,390	175.5	175	175.5		14	12	
POOREE ...	Sudder	1,530	720	74	74	64	Beali paddy	14	12	Owing to excessive rain at the time of sowing and harrowing, this year's bhadoi crops could not be harrowed and weeded in proper time, and hence the outturn is short.
							Mandia paddy	14	10	
	Khurda	990	415	144	144	144	Ditto	14	14	The Khurda crop had good weather for harvesting and did better than was expected.
							Kulthi pulse	14	14	
HAZARIBAGH							Kali ausu	14	14	
	District Total ...	2,520	1,135	218	218	208		14	13	
	Hazaribagh	4,075	2,593	882	882	882	Maize	15	5	The excessive rainfall in ploughing, sowing and harvesting time has prejudicially affected the bhadoi crops, especially the maize. The excessive rainfall in the harvesting time further reduced the outturn in the Giridih sub-division.
							Marua			
							Gondli			
							Barai pulse			
							Ghangri			
							Urid pulse			
							Sathi paddy			
							Gora			
							Dighio			
							Maize			
HAZARIBAGH	Giridih	2,446	1,280	282	282	282	Marua	17	6	
							Gondli			
							Barai			
							Kodo			
							Urid			
							Sathi			
							Gora			
	District Total ...	7,021	3,873	1,164	1,164	1,164		16	5	
	Sudder	7,784	1,662	216	274	224	Maize	13	14	Rainfall was generally favourable.
							Gondli		16	
HAZARIBAGH							Gora paddy		14	In the first report the outturn was estimated at 14 annas, but subsequently it was ascertained that only eight annas was gathered. This falling off is due to heavy rainfall in the beginning of the season.
							Urid pulse		14	
							Barai		12	
							Marua		14	
							Bodi		13	
							Maize			
							Sama			
							Marua			
							Kodo			
							Urid			
HAZARIBAGH							Gondli			
	District Total ...	12,014	3,632	616	700	624		More than 14	11	

1	2	3	4	5	6	7	8	9	10	11	12
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under bhadoi crops.	Approximate area under last year's bhadoi crops.	Estimated area under this year's bhadoi crops.	Name of principal bhadoi crops.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
MANBHOOM	Sudder	3,344	1,300	150	120	150	Gora paddy Maize Kodo Gondli Kheri pulse Biri pulse Maize Marua Kodo Gondli Kheri pulse Biri pulse	Annas. 18 14 12 12 12 12 12 12 16 12 8 12	Annas. 10 8 12 12 12 18 6 12 12 12 8 12	Excess of rainfall at ploughing and sowing-time has injured the crops.	
	Gobindapur	803	360	40	29	40					
	District Total	4,147	1,660	190	149	190		About 16	About 12		
	Kolhan	1,946	973	450	450	400	Gora paddy Maize Gondli Til Moong Biri Gora paddy Til (gingelly) Moong pulse Biri Maize Gondli Kaon Kheri Aus paddy Maize Til (gingelly) Moong pulse Kaon Biri Gondli	18	16		The yield would have been a bumper one but for insufficient rain during ripening time.
SINGBHOOM	Porahat	600	247	61	61	50		15	16	Excessive rain during the sowing-time affected the maize crop.	
	Dhalbhoom	1,147	573	143	143	120		18	20		
	District Total	3,753	1,793	654	654	570		17	17		
	Total for all Bengal	152,840'61	86,968'88	23,765'14	23,059'85	22,763'64		10	10		

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 20th December, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
BURDWAN DIV.	1 Burdwan Dec. 20, '90	Nil	Weather—fair and cold. <i>Amun</i> being harvested; outturn good. Sugarcane and <i>rubbi</i> crops doing well. Prices of common rice:— Srs. Sudder ... 18½ Culna ... 17 Cutwa ... 18½ Ranigunge ... 18 } per rupee.
	2 Bankoora „ 20, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> continues; outturn average. <i>Til</i> is being cut. Wheat, mustard, pulse, and sugarcane thriving. Common rice selling at 20 seers per rupee at Sudder and 21 seers at Bishenpore.
	3 Birbhum „ 20, '90	0.22	Weather—bright and clear. Rice harvest is being fast gathered in. Price of common rice from 19 to 22 seers per rupee.
	4 Midnapur „ 20, '90	Nil	Weather—seasonable but not so cold as it should be. Paddy is being reaped; outturn expected to be 16 annas in the Tumlook subdivision and 12 annas in the Contai subdivision. <i>Rubbi</i> and indigo doing well. Prices of common rice:— Srs. Contai ... 18 Tumlook ... 17½ Ghatal ... 17 Sudder ... 18 } per rupee.
	5 Hooghly „ 20, '90	0.14	Prospects of crops continue good. Prices stationary. Prices of common rice:— Srs. Sudder ... 14 or 15 Serampore ... 14 Jehanabad ... 16½ } per rupee.
	6 Howrah „ 20, '90	0.16	Weather—seasonable. Reaping of <i>amun</i> crop continues. Harvest good. Price of common rice 14½ seers per rupee.
PRESIDENCY DIV.	<i>Central Districts.</i>		
	7 24 Perghs. Dec. 20, '90	Nil	Weather—seasonable. Harvesting of winter rice proceeding; an excellent crop obtained almost everywhere. <i>Rubbi</i> crops progressing satisfactorily. Prices stationary.
	8 Nuddea „ 20, '90	Nil	Weather—seasonable. Winter crops doing fairly well. Harvesting of <i>amun</i> rice nearly finished.
	9 Khoolna „ 20, '90	Nil	Weather—cold. Harvesting of <i>amun</i> going on; prospects favourable except in flooded parts.
	10 Jessore „ 20, '90	0.03	Weather—seasonable. Harvesting of winter rice in progress. Prospects of spring crops continue favourable.
	11 Narail „ 20, '90	0.05	
RAJSHAHY DIV.	11 Moorsheadabad „ 20, '90	Nil	Weather—cold. <i>Amun</i> is being harvested. Prospects of <i>rubbi</i> favourable. <i>Kalai</i> doing well.
	12 Dinagepur „ 20, '90	Nil	Weather—seasonable. Prospects of crops continue good. Price of rice unchanged.
	13 Rajshahye „ 20, '90	Nil	Weather—seasonable; fair and cold. <i>Amun</i> and sugarcane being harvested. Mustard flowering. Ganja plants improving. Prospects of other winter crops good.
	14 Rungpur „ 20, '90	Nil	Clear cold weather. Tobacco is being planted. Sugarcane is being cut. <i>Amun</i> is being reaped. Prospects generally good.
	15 Bogra „ 20, '90	Nil	Report not received.
	16 Pubna „ 20, '90	Nil	Weather—cool. Prospects of crops generally good. Tobacco has mostly failed.
	17 Darjeeling „ 20, '90	Nil	Weather—cold and misty. Winter rice is being harvested. <i>Rubbi</i> crops doing well. Prospects good.
	18 Jalpigoree „ 20, '90	Nil	Weather—getting cool. Prospects of all crops favourable. Harvesting of <i>haimanti</i> paddy going on. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.—concluded.			
Eastern Districts.			
DACCA DIV.	19 Dacca Dec. 20, '90	Nil	Weather—seasonably cold. Harvesting of <i>amun</i> continues. Sowing of winter crops completed. Price of common rice from 14 to 18 seers per rupee.
	20 Furreedpur „ 20, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> paddy nearly finished. State of winter crops fair. Common rice selling at from 16 to 18 seers per rupee.
	21 Backergunge „ 20, '90	Nil	Weather—seasonable. Prospects of crops fair. New common rice selling at 16 seers per rupee.
	22 Mymensingh „ 20, '90	Nil	Weather—cold. Harvesting of <i>amun</i> paddy continues. A flight of insects reported from the Netrakona subdivision. Prospects of crops continue to be good. Common rice selling at 16½ seers per rupee.
CHITTAGONG DIV.	23 Chittagong „ 20, '90	Nil	Weather—seasonable. Cultivation of veg-table crop over. State and prospects of <i>amun</i> very good. Prices stationary.
	24 Noakhally „ 20, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> continues. <i>Rubbi</i> crops doing well. Good rice is being sold at 19 seers per rupee in the Fenny subdivision.
	25 Tipperah „ 20, '90	Nil	Weather—seasonable. <i>Amun</i> is being cut. Reaping will be over in a few days. Cold-weather crops prospering.
	26 Chittagong Hill Tracts. 18, '90	Nil	Weather—seasonable; very cold throughout the week. Harvesting of cotton still continues. Gathering of late rice continues. Mustard, tobacco, and other cold-weather crops progressing. Common rice is being sold at 11 seers 6½ chittacks per rupee.
BEHAR.			
PATNA DIV.	27 Patna „ 20, '90	Nil	Weather—cold. Harvesting of paddy and <i>jowar</i> going on. Prospects of <i>rubbi</i> crops continue good, but rain is wanted. Sugarcane is being pressed. Poppy growing well. Prices of food-grains show a tendency to fall.
	28 Gya „ 20, '90	Nil	Weather—cold. Paddy harvest going on. <i>Rubbi</i> and poppy prospering. Prices of food-grains falling.
	29 Shahabad „ 20, '90	Nil	Weather—cool and bright. State of all crops good. Prices falling.
	30 Durbhanga „ 20, '90	Nil	Weather—cool. Harvesting of rice in progress. <i>Rubbi</i> crops look promising, but a few showers of rain will be beneficial to them. Mustard in flower. Poppy and tobacco doing well. Common rice selling at from 14 to 19 seers per rupee.
	31 Mozafferpur „ 20, '90	Nil	Weather—seasonably cold. Harvesting of paddy in progress. <i>Rubbi</i> crops look well. Prospects of poppy continue good.
	32 Saran „ 20, '90	Nil	Weather—seasonable. Paddy harvesting nearly finished. Prospects of all winter crops very good.
	33 Chumprua „ 20, '90	Nil	Weather—cold; a little foggy in the morning and evening. Harvesting of paddy progressing. <i>Rubbi</i> and poppy doing well. Poppy is being weeded and needs irrigation in places. Price of common rice falling owing to the new harvest.
BHAGULPORE DIV.	34 Monghyr „ 20, '90	Nil	Weather—cold and dry. Harvesting of winter rice vigorously going on. Prospects of <i>rubbi</i> and poppy continue favourable.
	35 Bhagulpore „ 20, '90	Nil	Weather—seasonable. Harvesting of rice going on satisfactorily. Prospects of <i>rubbi</i> crops good.
	36 Purneah „ 20, '90	Nil	Weather—cold. Harvesting of <i>aghni</i> paddy still continues. <i>Rubbi</i> crops progressing well.
	37 Maldah „ 20, '90	Nil	Weather—seasonable. Harvesting of winter rice continues with favourable outturn. Gathering of <i>kalai</i> in progress. <i>Rubbi</i> crops and <i>boro</i> seedlings thriving. Common rice selling at from 14 to 20 seers per rupee.
	38 Sonthal Pergah „ 20, '90	0.14	Weather—cool. Harvesting of rice crop in full progress; outturn will be above the average. Prospect of <i>rubbi</i> crops very promising.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIVN.	39 Cuttack Dec. 20, '90	Nil	Weather—seasonable. <i>Mung</i> in flower and doing well. Planting of tobacco continues. General prospects good.
	40 Pooree „ 18, '90	0.20	Weather—seasonable. <i>Sarad</i> crop is being harvested. <i>Dalua</i> crop is being sown. Miscellaneous crops doing well. Price of common rice from 21 to 28 seer per rupee.
	Khoorda „ ...	1.39	
	Banpur „ ...	1.17	
41 Balasore „ 20, '90		0.46	Weather—still warm. Outturn of <i>sarad</i> or early winter rice may be taken at 13 annas.
CHOTA NAGPORE.			
South-West Frontier Agency.			
CHOTA NAGPORE DIVN.	42 Hazaribagh Dec. 20, '90	Nil	Weather—cold and seasonable. Harvesting of winter rice continues. Prospects of <i>rubbi</i> crops and poppy continue favourable. Prices stationary.
	43 Lohardugga „ 20, '90	Nil	Weather—cloudy. Harvesting of winter rice still continues. <i>Rubbi</i> seedlings suffering for want of rain. Prices steady.
	44 Singbhoom „ 20, '90	0.39	Weather—cloudy; warm for the season; slight rain on the 14th and 19th. All winter crops doing well; full outturn expected. Paddy is being harvested; outturn 16 annas everywhere except in thana Chakradharpur, where 8 to 12 annas crop expected. Prices stationary.
	45 Manbhoom „ 20, '90	Nil	Weather—seasonable. Harvesting of paddy nearly over; outturn full. All other crops doing well. Common rice selling at from 22 to 27 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 23rd December, 1890.P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLU. (<i>Sorghum Vulgare.</i>)					
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.			
BENGAL.																			
Western Districts.																			
		S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.
1	Burdwan	14 0	12 8	13 4	...	...	...	13 2	12 12	10 0	17 1	16 11	12 5	...	...	...	...	...	...
2	Bankoora	14 0	13 12	13 12	17 8	17 0	14 0	18 8	17 8	15 0	21 4	20 0	18 0	...	...	...	...	...	...
3	Beerbhoom	16 0	16 8	15 0	...	...	...	16 0	13 8	13 0	19 8	18 0	15 0	...	...	...	...	...	...
4	Midnapore	10 8	10 8	12 8	...	...	...	15 0	13 0	11 0	20 0	18 0	16 0	...	...	...	...	...	...
5	Hooghly	13 0	13 0	13 0	...	...	...	8 0	8 0	8 0	13 0	13 0	12 0	...	...	...	...	...	...
6	Howrah	...	...	...	...	...	...	11 0	10 0	9 8	16 0	14 8	12 8	...	...	...	...	...	...
Central Districts.																			
	Calcutta	12 14	12 14	13 3	18 11	18 1	16 11	8 15	8 12	8 3	14 4	13 1	13 5	...	16	14 12	...	...	...
7	24-Pergunnahs	13 0	13 0	13 5	17 0	17 0	16 0	8 0	8 0	7 8	16 0	15 0	15 0	...	...	...	...	...	...
8	Nuddea	15 4	15 4	15 0	16 0	16 0	17 12	11 13½	11 13½	10 10½	15 9½	15 9½	12 6	...	...	...	...	...	...
9	Khoolna	...	...	...	...	...	...	12 0	12 8	11 8	13 0	14 0	14 0	...	...	...	...	...	...
10	Jessore	12 12	12 8	13 5	...	...	...	11 8	11 8	9 0	14 8	14 8	16 0	...	...	...	...	...	...
11	Moorshedabad	15 0	16 0	16 0	...	...	...	10 0	10 0	10 0	18 0	16 0	14 0	...	...	...	...	...	...
12	Dinapore	12 0	14 11	17 8	20 0	20 0	14 8	15 8	14 4	15 8	19 4	18 0	19 0	...	...	...	...	...	...
13	Rajshahye	15 12	15 12	15 0	24 0	24 0	19 8	12 0	12 12	10 8	15 12	16 2	13 8	...	...	...	...	...	...
14	Rungpore	13 5	13 5	13 5	...	...	...	9 6	9 6	8 8	14 8	14 8	12 12	...	...	...	...	...	...
15	Bogra	15 0	15 0	15 0	...	...	...	12 0	13 8	12 0	18 0	New 18 0 Old 16 8	18 0	...	...	...	...	...	...
16	Pubna	18 0	18 0	15 8	...	...	...	7 6	7 6	7 6	16 8	15 12	14 4	...	...	...	...	...	...
17	Darjeeling	10 8	8 0	11 0	12 0	10 0	10 0	5 0	5 0	5 0	13 0	15 0	12 0	...	...	...	...	...	...
18	Julpigoree	12 0	13 0	12 0	16 0	16 0	16 0	8 0	8 0	8 0	16 0	16 0	17 0	...	...	...	...	...	...
Eastern Districts.																			
19	Dacca	12 0	12 0	13 0	14 0	14 0	16 0	14 0	14 0	12 0	15 0	15 0	14 0	...	...	...	...	...	...
20	Furreedpore	16 0	16 0	13 0	20 0	25 0	12 0	12 0	12 0	10 0	16 0	14 0	15 0	...	...	...	...	...	...
21	Backergunge	...	...	...	...	...	...	14 8	12 4	15 4	16 10	13 5	16 2	...	...	...	...	...	...
22	Mymensingh	10 8	11 4	10 0	...	...	...	10 8	10 0	8 0	16 0	16 0	13 14	...	...	...	...	...	...

A In subdivisions retail prices of salt per rupee are:—Culna 10 seers, Cutwa 10 seers 6 chittacks, and Kaneegunge 10½ seers.

B At Rampore Haut retail price of salt 9½ seers per rupee.

C In subdivisions retail prices of salt per rupee are:—Contal 9 seers, Tumlook 8 seers, and Gkatal 11 seers.

D At Jehanabad retail price of salt 10 seers and 10 chittacks per rupee.

E In subdivisions retail prices of salt per rupee are:—Baraset 10 seers, Basirhat 10 seers, Diamond Harbour (Kulpibat) 8 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.

F In subdivisions retail prices of salt per rupee are:—Kooashtea 10 seers, Meherpore 11 seers, Chooadanga 10 seers, and Ranaghat 10 seers.

G In subdivisions retail prices of salt per rupee are:—Sathkhira 10 seers and Bagirhat 8 seers.

H In subdivisions retail prices of salt per rupee are:—Magura 10 seers, Narail 9½ seers, and Bongong 10 seers.

SEEDS OF 80 TOLAHS.

Present return.	BAYRA OR COYRU. (<i>Pennisetum typhoides</i> .)
Next preceding return.	
Corresponding return of last year.	
Present return.	MARUA OR RAUL. (<i>Fleusine Coccinea</i> .)
Next preceding return.	
Corresponding return of last year.	

S. Ch. S. Ch. S. Ch. S. Ch. S. Ch. S. Ch.

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12	3	12	8	13	2
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2612a

K. In summary,

KANGNI OR KAREU, ITALIAN MILLET. (<i>Setaria italica</i> .)		GRAM, GRANA, CHHOLA, KADALAY OR SUNAGA. (<i>Cicer arietinum</i> .)	
Present return.		Present return.	
Next preceding re- turn.		Next preceding re- turn.	
Corresponding re- turn of last year.		Corresponding re- turn of last year.	

S. Ch. S.	Ch. S.	Ch. S.	Ch. S.	Ch. S.	Ch. S.	Ch. S.	Ch. S.
...	20 0	19 0	17 0	
...	16 0	16 0	15 0	
...	16 0	16 8	16 0	
...	17 0	17 0	15 0	
...	16 0	16 0	15 0	
...	20 0	17 8	16 8	

9 9	9 8	15 8	17 5	16 11	15 15	
8 0	7 0	5 4	20 0	19 0	16 0	
...	...	...	22 18	22 18	18 14	
...	...	...	18 0	13 0	12 0	
...	...	...	16 8	16 8	16 0	
...	...	...	22 8	22 8	20 0	
...	...	...	16 0	13 8	14 8	
...	...	...	21 0	19 8	18 0	
...	...	...	12 4	12 4	13 5	
...	...	...	13 8	15 0	15 0	
...	...	...	18 0	18 0	16 4	
...	...	...	12 0	12 0	10 0	
...	...	...	14 0	14 0	13 0	

...	...	...	16 0	16 0	13 0	
...	...	...	14 0	16 0	12 0	
...	...	...	16 10	15 4	15 0	
...	...	...	12 12	16 0	13 0	

Head-quarter Station Bazars of the Districts of Bengal on the 15th December 1890.

												WHOLESALE PRICES PER MAUND OF 40 SEERS.						DISTRICTS.
INDIAN-CORN OR MAIZE (Zea Mays.)			ARHAR OR THUR, CADJAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			SALT.						
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.				
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.				
BENGAL.																		
Western Districts.																		
...	18 0	16 0	18 0	100 0	100 0	100 0	A k 11 1-3	k 11 1-3	10 5	3 7 6	3 7 6	3 12 0	Burdwan.			
30 0	30 0	26 0	15 0	16 0	15 8	280 0	280 0	280 0	10 8	10 8	10 0	3 10 0	3 10 0	3 15 0	Bankoora.			
...	12 0	12 0	10 8	160 0	160 0	160 0	B 10 8	10 8	10	3 10 0	3 10 0	3 10 0	Beerbhoom.			
...	12 0	11 8	13 0	110 0	110 0	160 0	C 10 8	10 8	10 3	3 13 0	3 13 0	3 15 0	Midnapore.			
...	11 0	11 0	11 0	120 0	120 0	120 0	D 9 0	9 0	9 0	3 12 0	3 12 0	3 11 6	Hooghly.			
...	11 4	11 4	13 0	100 0	100 0	100 0	10 8	10 8	9 2	3 8 0	3 8 0	3 14 0	Howrah.			
Central Districts.																		
17 15	16 14	18 5	15 12	14 9	16 10	90 0	90 0	100 0	10 12	10 12	10 1	3 6 8	3 6 5	3 11 1	Calcutta.			
...	15 0	14 8	17 0	100 0	100 0	100 0	E 10 12	10 12	10 0	3 6 6	3 6 6	3 10 0	24-Pergunnahs.			
...	16 0	16 0	16 0	...	...	...	F 9 13	9 13	9 2	3 11 0	3 12 0	3 14 0	Nuddea.		
...	160 0	160 0	160 0	G 8 0	8 0	8 0	4 2 0	4 0 0	4 4 0	Khoolna.			
...	16 0	16 0	16 0	160 0	160 0	160 0	H 9 2	9 2	9 2	4 0 0	4 0 0	4 0 0	Jessore.			
...	16 0	16 0	18 0	200 0	200 0	220 0	I 11 0	11 0	11 0	3 10 0	3 10 0	3 8 0	Moorshedabad.			
...	15 8	16 4	...	160 0	160 0	160 0	J 10 0	10 0	9 8	4 0 0	4 0 0	4 0 0	Dinapore.			
...	18 4	17 8	17 0	240 0	240 0	240 0	K 9 9	9 9	9 0	3 13 4	3 13 4	4 5 4	Rajshahye.			
...	10 10	10 10	10 5	100 0	100 0	100 0	L 9 6	9 6	8 14	4 4 0	4 4 0	4 8 0	Rungpore.			
...	90 0	90 0	90 0	9 0	9 0	8 13	4 0 0	4 0 0	4 2 8	Bogra.			
...	17 4	17 4	17 4	200 0	200 0	200 0	M 8 15	8 15	k 8 11-2	3 14 0	3 14 0	4 1 6	Pubna.			
20 0	22 0	20 0	8 0	10 0	8 0	120 0	120 0	120 0	8 0	8 0	8 0	5 0 0	5 0 0	5 0 0	Darjeeling.			
...	10 0	12 0	12 0	200 0	200 0	128 0	O 10 0	10 0	9 0	4 0 0	4 0 0	4 2 0	Julpigoree.			
Eastern Districts.																		
...	14 0	16 0	14 0	120 0	120 0	160 0	P 9 12	9 12	9 4	4 0 0	4 0 0	4 4 0	Dacca.			
18 0	16 0	15 0	16 0	13 0	10 0	120 0	80 0	120 0	9 12	10 0	9 0	4 0 0	4 0 0	4 4 0	Furzedpore.			
...	Khesari, husked.			13 0	12 12	11 4	20 0	120 0	120 0	9 0	9 0	10 0	3 12 0	Backergunge.		
...	16 0	10 0	14 0	...	...	...	R 10 0	10 0	8 8	4 0 0	4 0 0	4 10 0	Mymensingh.		

I In subdivisions retail prices of salt per rupee are :—Lalbagh 10½ seers, Kandi 11½ seers, and Jungipore 10 seers.

J At Thakurngon retail price of salt 8 seers per rupee.

K In subdivisions retail prices of salt per rupee are :—Nattore 9 seers, and Nowgong 9 seers 9 chittacks.

L In subdivisions retail prices of salt per rupee are :—Gaibanda 8 seers, Nilphamari 9 seers, and Kurigram 8 seers.

M At Serajunge retail price of salt 10 seers per rupee.

N At Siliguri wholesale price of salt Rs. 4-4 per maund.

O At Fallacotta in the Alipore subdivision retail price of salt 8 seers per rupee.

P In subdivisions retail prices of salt per rupee are :—Manickgungo 9 seers, Moonsheegungo 8½ seers, and Naraingungo 10 seers.

Q In subdivisions retail prices of salt per rupee are :—Peropore 9 seers, Patuakhali 9 seers, and Bhola 8 seers.

R In subdivisions retail prices of salt per rupee are :—Kishoregungo 8 seers, Jamalpore 10 seers, Sherpore 8 seers, and Netrokona 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

		QUANTITIES PER RUPEE IN															
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (<i>Sorghum Vulgare</i> .)			
Number.	DISTRICTS.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
Eastern Districts—concluded.																	
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	
23	Chittagong ...	12 0	11 0	11 0	...	...	...	11 0	11 0	8 0	16 4	15 14	16 5	...	...	...
24	Noakholly ...	...	...	...	...	...	...	16 0	15 0	11 0	18 0	17 0	12 0	...	...	...
25	Tipperah ...	10 0	8 0	12 5	...	...	...	11 7	11 7	10 0	18 8	16 0	17 12½	...	...	...
26	Chittagong Hill Tracts.	...	...	...	...	...	...	10 5	10 5	10 0	11 6½	11 6½	13 5	...	...	...
BEHAR.																	
27	Patna ...	{ 17 4 17 8 17 8 } Red. White.			19 8	19 8	24 0	11 0	11 0	10 8	19 8	18 0	18 6	...	...	24 0
28	Gya ...	15 4	15 8	15 4	20 0	20 0	20 0	10 0	10 0	10 0	20 0	18 0	18 0	...	...	...
		15 8	15 8	17 0													
29	Shahabad ...	15 8	15 8	16 0	16 0	16 0	21 0	9 0	9 0	9 0	17 0	16 8	16 8	20 0	20 0	22 8	
30	Durbhunga ...	16 8	13 3	16 0	18 11	17 9	20 8	13 3	13 3	12 8	18 12	18 0	20 0	...	...	...
31	Mozufferpore ...	17 0	17 0	13 0	20 0	18 0	18 0	12 0	10 0	10 8	18 0	17 0	19 0	...	...	...
32	Sarun ...	16 8	14 8	15 12	19 8	16 4	21 0	8 12	8 8	8 8	15 8	14 12	14 14	...	...	...
33	Chumparun ...	18 0	18 0	12 0	22 0	22 0	20 0	9 0	9 0	9 0	18 0	18 0	19 0	...	...	...
34	Monghyr ...	14 12	16 12	17 13	16 13	17 13	15 12	13 2	12 0	12 1	17 14	14 11	18 14	...	...	...
35	Bhagulpore ...	16 6	16 6	16 6	20 3	20 3	20 3	{ 12 10 12 10 } Old. New.		12 10	16 6	15 2	16 0	{ ... } New. (Coarse).			
								16 6	16 6		20 3	19 4					
36	Purneah ...	17 0	16 0	20 0	...	...	...	20 0	16 0	20 0	22 0	18 0	22 0	...	...	...
37	Maldah ...	14 8	15 8	18 0	...	...	...	12 0	11 0	11 0	16 8	16 0	14 8	...	...	...
38	Sonthal Perghs.	14 0	14 0	15 0	...	...	...	13 0	13 0	12 0	20 0	21 0	16 0	...	...	...
ORISSA.																	
39	Cuttack ...	13 2	11 13	13 2	...	...	...	10 8	10 8	10 8	21 0	21 0	18 6	...	...	...
40	Pooree ...	13 2	14 7	13 2	...	...	...	14 7	14 7	14 7	21 0	21 0	22 10	...	...	...
41	Balasore ...	15 0	15 0	15 0	13 0	13 0	13 0	13 0	13 0	12 0	22 0	22 0	17 0	...	...	...
CHOTA NAGPORE.																	
South-West Frontier Agency.																	
42	Hazaribagh ...	14 0	14 0	13 0	19 0	15 0	11 0	11 0	10 0	10 0	20 0	20 0	20 0	...	...	...
43	Lohardugga ...	{ 14 8 14 0 12 0 } Red. White.			{ Not available }			13 0	17 0	{ 17 0 17 0 20 0 } New. Old.		{ 21 0 21 0 22 0 } New (ordinary). (Coarse).		
		8 0	7 12	10 8						14 0		23 0	21 12	24 0			
44	Singbhoom ...	16 0	16 0	10 0	16 0	20 0	20 0	12 0	14 0	14 0	20 0	20 0	20 0	...	...	...
45	Manbhoom ...	13 5	13 5	13 5	...	23 0	...	14 0	13 0	12 8	22 0	23 0	21 0	...	...	...

S At Cox's Bazar retail price of salt 8 seers per rupee.

T At Feni Hat retail price of salt 8½ seers per rupee.

U In subdivisions retail prices of salt per rupee are :—Buxar 10½ seers, Sasseram 10½ seers, and Bhabuah 9½ seers.

V At Somastipore retail price of salt 11 seers per rupee.

W In subdivisions retail prices of salt per rupee are :—Hajipore 9½ seers and Sitamarhi 10 seers.

X At Bettiah retail price of salt 10 seers per rupee.

CALCUTTA,
The 23rd December, 1890.

1573

|S. Ch.|S. Ch.|S. Ch. S. Ch.|S. Ch.|S. Ch.

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1	2	3	4	5	6

0.00	0.00	0.00	0.00	0.00	0.00
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Station Bazars of the Districts of Bengal on the 15th December 1890—(concluded).

												WHOLESALE PRICES PER MAUND OF 40 SEERS.			DISTRICTS.
INDIAN CORN OR MAIZE. (Zea Mays.)			ARHAR OR THUR. CAJAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			SALT.			
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
Eastern Districts—concluded.															
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
...	...	...	...	...	...	110 0	110 0	100 0	S 10 0 T	10 0	9 0	3 11 0	3 14 0	4 0 0	Chittagong.
...	...	...	8 0	8 0	7 0	...	...	...	9 0	9 0	9 0	4 0 0	4 0 0	4 0 0	Noakhali p.
...	...	...	10 0	10 0	8 6½	...	...	...	10 0	10 0	8 14	4 0 0	4 0 0	4 8 0	Tipperah.
...	...	...	...	...	...	320 0	320 0	320 0	8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	Chittagong Hill Tracts.
23 8	19 8	24 0	...	16 8	22 8	130 0	120 0	130 0	9 8	9 8	9 8	3 9 6	3 9 6	3 14 0	BEHAR. Patna.
...	...	...	17 0	17 0	18 0	160 0	160 0	200 0	10 0	10 0	9 0	4 2 0	4 2 0	4 2 0	Gya.
...	...	...	17 0	18 0	20 0	160 0	160 0	140 0	10 0	10 0	10 0	3 15 0	3 15 0	3 15 0	Shahabad.
22 0	20 14	25 0	17 9	17 0	20 0	160 0	160 0	160 0	11 0	11 0	10 0	3 8 0	3 8 0	4 0 0	Durbhunga.
20 0	19 0	22 0	18 0	17 0	22 0	160 0	160 0	160 0	11 10	10 8	10 0	3 12 0	3 12 0	4 0 0	Mozufferpore.
19 8	18 0	22 0	16 8	16 8	20 8	180 0	180 0	160 0	10 4	10 4	9 8	3 11 6	3 11 6	4 2 0	Sarun.
22 0	22 0	25 0	17 0	17 0	17 0	160 0	160 0	160 0	10 0	10 0	9 8	3 13 0	3 13 0	3 15 0	Champaran.
18 15	21 0	25 4	15 12	16 12	18 14	165 0	168 0	147 0	10 8	10 8	10 0	3 10 6	3 10 6	3 14 6	Monghyr.
21 7	21 7	24 0	17 11	17 11	17 10	151 8	151 8	151 8	10 1	10 8	10 1	3 12 0	3 11 0	3 15 6	Bhagalpore.
...	...	...	13 0	14 0	15 0	...	131 0	130 0	9 0	9 0	9 0	4 7 0	4 7 0	4 7 0	Purneah.
...	...	...	...	...	...	120 0	120 0	160 0	9 0	9 0	8 8	4 0 0	4 0 0	4 6 0	Maldah.
24 0	24 0	27 0	20 0	20 0	19 0	200 0	200 0	200 0	9 0	9 0	9 4	4 0 0	4 0 0	4 0 0	Sonthal Pergas.
ORISSA.															
...	...	...	17 1	18 6	17 1	80 0	80 0	80 0	11 0	11 0	11 0	3 12 0	3 12 0	3 12 0	Cuttack.
...	...	...	17 12	17 12	15 12	80 0	80 0	80 0	9 13	9 13	11 13	3 12 0	3 12 0	3 6 0	Pooree.
...	...	...	...	...	...	160 0	160 0	140 0	10 0	10 0	9 0	3 14 0	3 14 0	4 2 0	Balasore.
CHOTA NAGPORE.															
South-West Frontier Agency.															
24 0	25 0	28 0	19 0	20 0	19 0	240 0	240 0	320 0	9 0	8 0	8 0	4 0 0	4 2 0	4 8 0	Hazaribagl.
28 0	28 8	35 0	24 0	24 0	14 12	150 0	140 0	140 0	9 0	9 0	8 4	4 4 0	4 2 0	4 10 0	Lohardugga.
20 0	32 0	32 0	21 0	24 0	12 0	240 0	240 0	200 0	8 0	8 0	7 0	5 0 0	5 0 0	5 8 0	Singbhoom.
26 0	26 0	32 0	18 0	16 0	16 0	200 0	200 0	200 0	9 14	10 0	9 2	3 14 0	3 14 0	4 4 0	Manbhoom.

Y In subdivisions retail prices of salt per rupee are :—Begusarai 9½ seers and Jamui 9 seers.

Z At Kisingunge retail price of salt 8 seers per rupee.

Z1 In Khoorda subdivision retail price of salt 10½ seers per rupee.

Z2 At Bhudruck retail price of salt 9 seers per rupee.

Z3 At Daltongunge (Palamew subdivision) retail price of salt 9 seers per rupee.

Z4 At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

Number.	MARTS	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 13 2	2 13 4	2 12 3	1 14 2	1 15 3	2 1 11	4 3 5	4 4 9	4 10 2	2 9 3	2 12 10	2 12 0
2	Serajgunge ...	1 12 0	1 12 0	2 8 0	...	...	...	4 12 0	4 10 0	5 8 0	2 8 0	3 4 0	3 0 0
3	Dacca ...	3 4 0	3 4 0	3 0 0	2 12 0	2 12 0	2 7 0	2 12 0	2 12 0	3 4 0	2 10 0	2 10 0	2 12 0
4	Naraingunge ...	...	...	...	...	...	...	3 0 0	3 0 0	3 4 0	2 12 0	2 12 0	3 0 0
5	Chittagong ...	3 4 0	3 8 0	3 8 0	...	...	...	3 10 0	3 8 0	4 8 0	2 6 0	2 8 0	2 8 0
6	Patna ...	{ 2 5 3 2 9 0	Red. 2 4 0 White. 2 8 0	2 4 0 2 9 0	{ 2 0 0 2 0 0	{ 2 0 0 2 0 0	{ 1 9 6 3 8 0	3 8 0	3 8 0	3 12 0	2 0 0	2 2 6	2 0 0
7	Balasore ...							3 0 0	3 0 0	3 4 0	1 13 0	1 13 0	2 4 0
8	Pooree ...	...	...	...	...	...	...	...	...	...	1 14 3	1 14 3	1 15 0
9	Cuttack ...	3 0 0	3 4 0	3 0 0	...	...	...	3 10 0	3 10 0	3 0 0	1 11 0	1 11 0	2 3 0

Calcutta,
The 23rd December, 1890.

[illegible]

OF 40 SEERS.

MARUA OR RAGI. (<i>Eleusine Corocana.</i>)			KANGNI OR KAKUN, ITALIAN MILLET. (<i>Setaria italica.</i>)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
...	3 10 93	11 12	6 0
...
...
...
...
...
...	...	1 7 0	2 5 02	5 02	0 0
...
...
...

in the undermentioned Marts of Bengal on the 15th December, 1890.

GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (<i>Cicer Arietinum.</i>)			INDIAN-CORN OR MAIZE. (<i>Zea Mays.</i>)			ARHAR OR THUR. CADJAN PEA. (<i>Cajanus indicus.</i>)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
2 0 10	2 2 3	2 4 6	1 15 7	2 1 9	1 14 7	2 4 6	2 7 8	2 2 7	0 5 9	0 5 9	0 5 6	3 6 8	3 6 5	3 11 1	Calcutta.
2 8 0	2 9 0	3 4 0	...	...	...	...	...	...	...	...	...	3 14 0	3 14 0	4 2 0	Serajgunge.
2 8 0	2 8 0	3 0 0	...	...	...	2 12 0	2 8 0	2 12 0	0 5 0	0 5 0	0 4 0	4 0 0	4 0 0	4 4 0	Dacca.
3 4 0	3 4 0	3 0 0	...	...	...	3 4 0	3 4 0	3 4 0	0 8 0	0 8 0	0 8 0	3 11 0	3 11 0	4 0 0	Narsingunge.
3 2 0	3 0 0	3 0 0	...	...	...	...	...	...	0 5 4	0 5 4	0 7 0	3 11 0	3 14 0	4 0 0	Chittagong.
1 14 6	2 0 0	1 10 6	1 10 6	2 0 0	1 9 6	...	2 6 0	1 12 0	0 5 0	0 5 0	0 5 0	3 9 6	3 9 6	3 14 0	Patna.
2 12 0	2 12 0	2 12 0	...	...	...	...	...	...	0 4 6	0 4 6	0 5 0	3 14 0	3 14 0	4 2 0	Balasore.
...	...	...	...	...	...	...	...	...	...	...	...	3 12 0	3 12 0	3 6 0	Pooree.
2 10 0	2 15 0	2 11 0	...	...	...	2 2 0	2 2 0	2 2 0	0 8 0	0 8 0	0 8 0	3 12 0	3 12 0	3 12 0	Cuttack.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Division.	District.	Station.	RAINFALL.						TOTAL		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 13th December.	Sunday, 14th December.	Monday, 15th December.	Tuesday, 16th December.	Wednesday, 17th December.	Thursday, 18th December.	Friday, 19th December.	Number of rainy days.					Rainfall in week.
EAST BENGAL—contd.		Gournadi ..	...	...	...	...	...	...	Nil	Nil	Nil	?	42'00	?
		Bauphal ..	...	...	...	...	...	...	Nil	Nil	Nil	?	73'28	?
	Nonkholly ..	Nonkholly ..	...	...	...	...	...	...	Nil	Nil	Nil	0'55	23'34	107'14
		Penny ..	...	...	...	...	...	...	Nil	Nil	Nil	0'98	103'40	105'73
		Barishpore ..	...	...	...	...	...	...	Nil	Nil	Nil	0'80	170'31	?
		Ramganj ..	...	...	...	...	...	...	Nil	Nil	Nil	?	65'28	?
	Furreedpore ..	Maderipore ..	...	...	...	...	...	...	Nil	Nil	Nil	0'14	41'01	55'25
		Furreedpore ..	...	...	...	...	...	...	Nil	Nil	Nil	0'11	40'45	57'38
		Tokimunde ..	...	...	...	...	...	...	Nil	Nil	Nil	0'08	44'00	53'49
	Dacca ..	Munshigunge ..	...	...	...	...	...	...	Nil	Nil	Nil	0'30	67'78	60'64
		Dacca ..	...	...	...	...	...	...	Nil	Nil	Nil	0'16	54'38	58'16
		Varanasinge ..	...	...	...	...	...	...	Nil	Nil	Nil	0'20	60'71	61'49
		Manickzunge ..	...	...	...	...	...	...	Nil	Nil	Nil	?	60'71	61'49
	Hill Tipperah ..	Loydepore ..	...	...	...	...	...	...	Nil	Nil	Nil	?	68'28	?
		Agartala ..	...	...	...	...	...	...	Nil	Nil	Nil	0'36	61'00	61'00
		Omilla ..	...	...	...	...	...	...	Nil	Nil	Nil	0'44	67'24	75'38
		Handpore ..	...	...	...	...	...	...	Nil	Nil	Nil	0'35	56'78	74'65
		Brahmanberia ..	...	...	...	...	...	...	Nil	Nil	Nil	0'30	54'94	61'17
		Ramchandrapore ..	...	...	...	...	...	...	Nil	Nil	Nil	?	70'11	?
		Vasirnagar ..	...	...	...	...	...	...	Nil	Nil	Nil	?	84'81	?
	Mymensingh ..	Haudkandi ..	...	...	...	...	...	...	Nil	Nil	Nil	?	30'44	?
		Kasba ..	...	...	...	...	...	...	Nil	Nil	Nil	?	61'71	?
		Laksham ..	...	...	...	...	...	...	Nil	Nil	Nil	?	63'55	?
		Kishoreganj ..	...	...	...	...	...	...	Nil	Nil	Nil	0'14	68'67	69'31
Atia (Tangai) ..		...	...	...	...	...	...	Nil	Nil	Nil	0'08	56'02	54'94	
Aymensingh ..		...	...	...	...	...	...	Nil	Nil	Nil	0'12	78'05	73'32	
Jamalpur ..		...	...	...	...	...	...	Nil	Nil	Nil	0'17	79'16	64'96	
NORTH BENGAL.	Sutarkana ..	...	...	...	...	...	...	Nil	Nil	Nil	0'17	65'54	80'53	
	Subornakhali ..	...	...	...	...	...	...	Nil	Nil	Nil	?	58'28	?	
	Durgapore ..	...	...	...	...	...	...	Nil	Nil	Nil	?	118'07	?	
	Sherepore Town ..	...	...	...	...	...	...	Nil	Nil	Nil	?	67'41	?	
	Deoaganj ..	...	...	...	...	...	...	Nil	Nil	Nil	?	72'90	?	
	Pubna ..	...	...	...	...	...	...	Nil	Nil	Nil	0'09	46'08	53'45	
	Pubna ..	...	...	...	...	...	...	Nil	Nil	Nil	0'08	63'81	53'27	
Rajshahi ..	Sherepore ..	...	...	...	...	...	...	Nil	Nil	Nil	0'18	77'86	57'95	
	Nowkhilla ..	...	...	...	...	...	...	Nil	Nil	Nil	0'13	66'79	53'8	

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 19th of December 1890—concl.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 13th December.	Sunday, 14th December.	Monday, 15th December.	Tuesday, 16th December.	Wednesday, 17th December.	Thursday, 18th December.	Friday, 19th December.	Number of rainy days.	of Rainfall week.				
NORTH BEHAR—concluded.	Chumpran...	Motihari	...	...	...	...	...	...	...	Nil	Nil	Nil	0.13	72.06	44.14
		Bettiah	...	...	...	...	...	...	...	Nil	Nil	Nil	0.19	64.89	45.01
		Bagaha	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Burhura	...	...	...	...	...	...	...	Nil	Nil	Nil	?	58.36	?
SOUTH BEHAR	Sarun	Gopalgunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0.17	52.67	42.02
		Sewan	...	...	...	...	...	...	...	Nil	Nil	Nil	0.11	59.84	43.21
		Chuprah	...	...	...	...	...	...	...	Nil	Nil	Nil	0.14	48.27	40.12
		Buxar	...	...	...	...	...	...	...	Nil	Nil	Nil	0.13	52.47	41.71
	Shahabad	Dehree	0.04	...	...	...	...	...	...	1	0.04	0.04	0.55	43.18	39.85
		Bhaboonah	...	...	...	...	...	...	...	Nil	Nil	Nil	0.22	41.11	40.60
		Sasseran	0.08	...	...	...	...	...	...	1	0.08	0.08	0.24	44.27	40.16
		Arrah	...	...	...	...	...	...	...	Nil	Nil	Nil	0.17	66.96	39.65
		Mohaniah	...	...	...	...	...	...	...	Nil	Nil	Nil	?	36.07	?
	Gya	Aurangabad	...	...	...	...	...	...	...	Nil	Nil	Nil	0.24	59.49	42.15
		Gya	0.08	...	...	...	...	...	...	1	0.08	0.08	0.17	60.12	42.60
		Nowadah	...	...	...	...	...	...	...	Nil	Nil	Nil	0.12	54.84	39.29
		Jehanabad	...	...	...	...	...	...	...	Nil	Nil	Nil	0.16	53.35	40.39
		Arwal	...	...	...	...	...	...	...	Nil	Nil	Nil	?	55.43	?
		Daudnagar	...	...	...	...	...	...	...	Nil	Nil	Nil	?	29.85	?
		Sherrghati	...	...	...	...	...	...	...	Nil	Nil	Nil	?	36.81	?
		Rajauli	...	...	...	...	...	...	...	Nil	Nil	Nil	?	45.00	?
		Pakri Barawan	...	...	...	...	...	...	...	Nil	Nil	Nil	?	54.24	?
	Patna	Patna	...	...	...	...	...	...	...	Nil	Nil	Nil	0.12	50.02	41.37
		Dinspore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.12	52.13	40.92
		Behar	...	...	...	...	...	...	...	Nil	Nil	Nil	0.10	46.95	41.23
		Barrh	...	...	...	...	...	...	...	Nil	Nil	Nil	0.11	43.25	39.31
	Monghyr	Biokram	...	...	...	...	...	...	...	Nil	Nil	Nil	?	58.35	?
		Hissa	...	...	...	...	...	...	...	Nil	Nil	Nil	?	50.24	?
		Begoozerai	...	...	...	...	...	...	...	Nil	Nil	Nil	0.07	44.29	39.62
		Monghyr	...	...	...	...	...	...	...	Nil	Nil	Nil	0.07	51.84	45.99
	South Bhagulpore.	Jamui	...	...	...	...	...	...	...	Nil	Nil	Nil	0.07	60.22	43.91
		Gogri	...	...	...	...	...	...	...	Nil	Nil	Nil	?	76.44	?
		Shetkpara	...	...	...	...	...	...	...	Nil	Nil	Nil	?	47.76	?
		Rhegulpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.08	59.77	41.73
	Sonthal Pergunnahs.	Banka	...	...	...	...	...	...	...	Nil	Nil	Nil	0.08	42.11	43.25
		Kolgaing	...	...	...	...	...	...	...	Nil	Nil	Nil	?	02.06	?
		Bongaon	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Rajmehal	...	...	...	...	...	...	...	Nil	Nil	Nil	0.06	56.86	51.96
CHUTTA NAG-POR.	Hazariabagh	Goddā	...	...	...	...	...	...	...	Nil	Nil	Nil	0.10	50.75	43.78
		Pakour	...	...	...	...	...	...	...	Nil	Nil	Nil	0.07	74.10	54.99
		Nya Duemka	...	0.14	...	...	...	...	...	1	0.14	0.14	0.10	74.36	54.02
		Deoghur	0.08	...	...	...	...	...	...	1	0.08	0.08	0.06	49.51	49.27
		Jamtara	0.16	...	...	...	...	...	...	1	0.16	0.16	0.11	76.50	47.78
		Mohasama	...	...	...	...	...	...	...	Nil	Nil	Nil	?	45.81	?
		Nasihat	...	...	...	...	...	...	...	Nil	Nil	Nil	?	32.28	?
		Pachamba (Girdi)	...	0.02	...	...	...	...	...	1	0.02	0.02	0.09	55.37	40.89
	Lohardugga	Hazariabagh	...	0.05	...	...	...	...	...	1	0.05	0.05	0.20	50.02	49.32
		Sentagurah	...	...	...	...	...	...	...	Nil	Nil	Nil	0.31	38.94	45.68
		Mahudi Hills	...	...	...	...	...	...	...	Nil	Nil	Nil	0.20	43.02	48.34
		Jhoomra Hills	...	...	...	...	...	...	...	Nil	Nil	Nil	0.15	36.80	59.75
		Barhi	0.13	...	...	...	...	...	...	1	0.13	0.13	?	50.37	?
		Chatra	...	...	...	...	...	...	...	Nil	Nil	Nil	?	47.08	?
		Karagdeha	0.07	...	...	...	...	...	...	1	0.07	0.07	?	57.41	?
		Rampur	...	...	...	...	...	...	...	Nil	Nil	Nil	?	50.24	?
	Singbhoom	Lohardugga	...	...	...	...	...	...	...	Nil	Nil	Nil	0.32	53.19	49.60
		Ranchi	...	...	...	...	...	...	...	Nil	Nil	Nil	0.15	43.57	51.34
		Falsmow	...	...	...	...	...	...	...	Nil	Nil	Nil	0.13	44.27	42.42
		Silli	...	...	...	...	...	...	...	Nil	Nil	Nil	?	43.85	?
	Manbhoom	Balumat	...	...	...	...	...	...	...	Nil	Nil	Nil	?	43.62	?
		Mossinabad	...	...	...	...	...	...	...	Nil	Nil	Nil	?	41.75	?
		Garwah	...	...	...	...	...	...	...	Nil	Nil	Nil	?	38.30	?
		Chyebassa	...	0.21	...	...	...	...	...	0.18	2	0.39	0.29	34.53	50.86
	Baharagura	Chakradhar-pore.	...	...	...	...	...	...	0.05	1	0.05	0.05	?	24.88	?
		Chatilla	...	0.42	...	...	...	...	...	1	0.42	0.42	?	51.88	?
		Baharagura	...	...	...	...	...	...	...	Nil	Nil	Nil	1.12	52.05	?
		Parulia	...	...	...	...	...	...	...	Nil	Nil	Nil	0.14	44.22	45.44
	Jhalda	Gobindpore	...	0.29	...	...	...	...	...	1	0.29	0.29	0.12	39.13	44.43
		Raghunath-pore.	...	...	...	...	...	...	...	Nil	Nil	Nil	?	62.26	?
		Barrabhoom	...	...	...	...	...	...	...	Nil	Nil	0.07	?	44.22	?
		Chas	...	...	...	...	...	...	...	Nil	Nil	Nil	?	64.71	?

Explanation.—..... indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 23rd December 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 19TH
OF DECEMBER 1890.

For some days before the close of the previous week a fairly well-marked but feeble barometric depression had existed over North Bengal and parts of Central and South-West Bengal, and this had given rise to slightly disturbed weather with rather excessive temperature and with occasional rain showers. On the 12th, or the last day of the week, however it appeared as if the general weather conditions were becoming rather more normal, but on the 13th again a rather rapid fall of pressure took place over Chutia Nagpur and parts of Central and South-West Bengal and Orissa. Pressure on this day was in considerable defect of the normal over Chutia Nagpur and Orissa and the western and south-western parts of South-West Bengal, as well as over parts of North Behar and North Bengal, the defect over other districts being comparatively small, and this was accompanied by rather high temperature, the excess above the normal varying from nearly two degrees at Calcutta to about seven degrees at Cuttack and False Point. Conditions were therefore again somewhat abnormal on this day, and their effect was seen in the somewhat numerous local rain showers which were reported on the 14th in Orissa, South-West Bengal, and Chutia Nagpur. From the 13th to the 14th pressure generally rose by small amounts, but still Chutia Nagpur, the south-western stations of South-West Bengal and part of Orissa showed a distinctly defective pressure on the 14th compared to the remainder of the province, and again on the morning of the 15th rain showers were reported from Orissa, but conditions were evidently less disturbed than they were; and though temperature was rather largely in excess of the normal over the whole of the south-western districts, the largest excess temperatures of about 5° and upwards were confined to such stations as Saugor Island, Balasore, Cuttack, and False Point. A very rapid rise of pressure had taken place on the 15th, and at many stations it equalled more than a tenth of an inch. This had the effect of bringing the general pressure of the province above the normal, and temperature commenced to fall rather rapidly, though it still was above the normal. The wind current blowing over the province on the 15th was, however, still a little unsteady, though it was evident conditions were less disturbed than they were. On the 16th pressure changes were very small, but the fall of temperature continued, and over a large part of the province temperature was lower than the normal, while also a steady northerly wind current was blowing at almost all stations; so that on this day practically normal cold season conditions were again established. The pressure variations on the 17th and 18th were of little importance, but temperature at the western stations commenced to increase on the 17th, and this increase continued rather rapidly on the 18th; so that on this date at all the western stations the mean temperature was in excess of the normal by amounts ranging up to more than 5° at Dehree, Gya, Ranchee, Chyebassa, and Cuttack. On the 19th, or the last day of the week, pressure commenced to rise more rapidly, and became generally in excess of the normal, and temperature began to decrease at the western stations, though it rose in the centre and east of the province; and on this day the mean temperature was in excess of the normal at practically all stations except a few in the south-east of the province, the excess usually ranging from about 1° up to 5° . A fairly steady northerly wind current was, however, still blowing over practically the whole province on the 19th. It will therefore be seen that the principal feature of the week has been the continued relatively high temperature over the western districts of the province.

Pressure.—Has varied rather considerably, as noticed above, but the mean pressure has been very nearly equal to the normal for the week, and about half the stations show slightly defective pressures and half slight excess pressures. The variations are however, rarely more than one or two-hundredths of an inch, and generally pressure has been in excess in Behar and North, East, and South-West Bengal, and below it elsewhere.

Temperature.—The mean temperature for the week has been more than 5° in excess of the normal in Orissa, about two and-a-half degrees in excess in Chutia Nagpur, and about 1° in excess in South-West Bengal and South Behar. In other districts slight defects are shown varying up to 1.2° in North Bengal.

The distribution of temperature during the week and its variation from the normal are best seen in the table below, where the average maximum, minimum, and mean temperatures for the week at nine typical stations in different districts of the province are compared with

their normal values for the same period. It will be seen that the variations have generally been largest in the night or minimum temperatures:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending the 19th of December 1890.

	Normal mean maximum temperature for the week ending 19th December.	Actual mean maximum temperature for the week ending 19th December 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 19th December.	Actual mean minimum temperature for the week ending 19th December 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 19th December.	Actual mean daily temperature for the week ending 19th December 1890.	Variation of actual mean from the normal.
Cuttack	82.3	85.1	+2.8	58.2	55.9	+2.3	70.3	70.0	+0.3
Calcutta	76.3	77.0	+0.7	56.0	57.6	+1.6	66.1	67.3	+1.2
Dacca	78.4	77.2	-1.2	57.1	55.7	-1.4	67.7	66.5	-1.2
Burdwan	77.8	77.7	-0.1	55.9	56.7	+0.8	66.8	67.2	+0.4
Patna	74.1	73.4	-0.7	51.3	52.1	+0.8	62.7	62.8	+0.1
Gya	75.6	76.4	+0.8	51.4	53.5	+2.1	63.5	65.0	+1.5
Purnea	76.0	73.3	-2.7	49.1	48.2	-0.9	62.6	60.8	-1.8
Hazaribagh	71.3	72.4	+1.1	50.4	52.3	+1.9	60.8	63.4	+2.6
Darjeeling	48.9	44.5	-4.4	36.3	33.8	-2.5	42.6	39.2	-3.4

Rainfall.—The rainfall for the week has been rather local. The only district where the falls have been of any importance has been Orissa, which has averaged 0.39 inch. In the districts of South-West Bengal, Chutia Nagpur, South Behar, and East Bengal, the falls have averaged less than a tenth of an inch. North Bengal and North Behar have been rainless, except for a slight shower at Buxa in the Darjeeling Hills district.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 19th of December 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.							RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages for week.				Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average.		Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.	
Orissa	80.7	59.6	82.2	66.2	74.2	+5.1	0.39	0.03	+0.36	0.7	0.1	+0.6	0.44	0.39	63.71	53.02	
South-West Bengal ...	84.3	49.3	77.7	56.8	67.3	+0.8	0.09	0.01	+0.08	0.4	0.1	+0.3	0.09	0.18	56.93	51.46	
East Bengal	80.5	50.1	76.3	54.5	65.4	-0.6	0.01	0.01	0	0.1	0.1	0	0.07	0.32	71.40	73.98	
North Bengal	77.0	47.3	74.4	51.3	62.9	-1.2	Nil	0.03	-0.03	0.0	0.1	-0.1	Nil	0.13	65.69	68.97	
North Behar	76.8	43.9	73.7	49.6	61.7	-0.8	Nil	0.05	-0.05	0.0	0.1	-0.1	Nil	0.10	64.38	48.08	
South Behar	79.3	47.5	75.1	51.5	63.3	+0.8	0.02	0.08	-0.06	0.3	0.2	+0.1	0.02	0.13	54.68	43.32	
Chutia Nagpur	77.5	48.7	74.1	52.1	63.1	+2.4	0.07	0.12	-0.05	0.4	0.2	+0.2	0.09	0.18	46.00	48.47	

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;
The 23rd December 1890.

A. PEDLER,
Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from
14th to 20th December 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
		°		Inches.	°	°	°	°	°	Inches.	°	%			Inches.	
Dec.	14th	129.5	8.7	29.969	68.6	76.8	15.4	61.2	63.6	0.522	60.2	75	NW and calm	38	Nil	Chiefly clear.
"	15th	127.7	8.9	30.039	66.6	76.0	18.2	57.8	61.4	.477	57.6	74	N and calm	32	"	Clear, Δ .
"	16th	127.5	8.8	.043	64.9	74.6	18.8	55.8	59.6	.444	55.6	74	NNW, NNE, and calm.	16	"	Clear, Δ .
"	17th	123.8	9.0	.040	65.0	77.1	23.3	53.8	59.6	.443	55.6	73	NNW and calm	18	"	Clear, Δ .
"	18th	125.2	7.8	.040	66.2	78.4	22.2	56.2	61.5	.490	58.4	78	Calm and variable...	8	"	Clear, Δ , \equiv .
"	19th	130.6	8.3	.062	68.1	78.6	19.3	59.3	62.9	.507	59.4	76	NNW and calm	19	"	Chiefly clear Δ , \equiv .
"	20th	128.6	9.1	.058	66.4	76.4	21.0	55.4	60.6	.454	56.2	72	NNW and calm	30	"	Clear, Δ .

The mean pressure of the seven days ... 30.036
 The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 30.031

The total number of hours of bright sunshine ... 60.6
 The maximum possible number of hours of sunshine ... 75.0

The mean temperature of the seven days ... 66.5
 The average temperature of the corresponding period for 24 years, S.-G.'s Office ... 67.4
 The extreme variation of temperature ... 24.8
 The maximum temperature ... 78.6

The highest velocity of the wind in one hour ... 6

The highest pressure of wind on one square foot ... ?

The mean relative humidity ... 75

The average relative humidity of the corresponding period for 24 years, S.-G.'s Office ... 71

The total fall of rain from 14th to 20th December 1890 ... Nil

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 0.01

The total fall from 1st January to 20th December 1890 ... 61.28

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 65.23

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph. The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

Δ , dew; \equiv , fog.

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
 Calcutta, the 22nd December 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 14th to 20th December 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.				HYGROMETRY.					Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
December ..	14th ...	30.035	70.0	78.0	16.1	61.9	71.6	64.6	.517	59.9	67	0.17
" ..	15th ...	.108	68.1	76.9	17.6	59.3	71.6	62.7	.452	56.1	58	...
" ..	16th ...	.120	66.4	75.9	19.0	56.9	69.6	61.7	.445	55.7	61	...
" ..	17th ...	.106	66.4	77.9	23.0	54.9	70.0	62.7	.474	57.5	65	...
" ..	18th ...	.093	68.6	79.7	22.3	57.4	71.1	63.6	.489	58.3	64	...
" ..	19th ...	.121	69.9	79.4	19.1	60.3	74.6	69.6	.658	66.8	77	...
" ..	20th ...	.137	67.2	77.2	20.1	57.1	71.1	61.7	.425	54.4	56	...

The mean 10 A.M. pressure of the seven days Inches.
30.103

The mean temperature of the seven days 68.1

The extreme variation of temperature 24.8

The maximum temperature 79.7

The mean 10 A.M. relative humidity of the seven days %
64

The total fall of rain from 14th to 20th December 1890 0.17

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA ;
The 22nd December 1890.

MEMORANDUM.

Quarterly review of births and deaths registered in twenty-seven principal towns of Bengal for the Quarter ending 30th September 1890.

BIRTHS.

The births registered in twenty-seven of the principal towns of Bengal during the three months ending with September 1890 were 5,503, and correspond to an annual rate of 20·72 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 1·52 lower than the mean rate of the corresponding quarters of the past five years (1885—89), and is also lower than the rate of the corresponding period of any of the past five years except 1887, *vide* the figures below:—

	QUARTER ENDING 30TH SEPTEMBER OF—					
	1885.	1886.	1887.	1888.	1889.	Quarterly average of five years 1885—89.
Ratio of births per 1,000 of the population per annum	26·80	22·00	18·36	21·62	22·44	22·24
	20·72					

The births registered in each of the twenty-seven principal towns during the third quarters of 1890, 1889, and the average of the five years 1885—89, correspond to the following rates per 1,000 of the population of those towns:—

Towns.	RATIO PER MILLE.			Towns.	RATIO PER MILLE.		
	Quarter ending 30th Sept. of—				Quarter ending 30th Sept. of—		
	1890.	1889.	Average of five years 1885—89.		1890.	1889.	Average of five years 1885—89.
Burdwan	24'28	20'40	18'76	Narainganj	23'88	19'40	18'76
Midnapore	15'84	14'88	16'92	Chittagong	9'54	12'28	10'68
Hughli and Chinsurah	25'24	28'40	22'32	Comillah	16'56	29'60	27'24
Serampore	28'52	33'96	25'48	Patna City	14'32	14'00	24'20
Utterpara	23'02	23'92	19'60	Gya	27'36	24'20	33'36
Howrah	18'76	21'96	18'84	Arrah	29'88	38'44	24'36
Bali	14'28	18'08	15'36	Mozufferpore	18'12	24'76	19'36
Krishnagar	14'24	17'60	15'72	Durbhanga	25'08	25'08	27'20
Ranighat	13'80	8'72	7'36	Chupra	17'56	29'88	18'48
Santipore	15'88	20'60	11'56	Bhawalpore	24'48	28'96	33'20
Jessore	7'52	13'16	6'56	Monghyr	37'24	34'32	33'48
Rampore Beaulah	34'12	27'08	22'00	Purneah	14'04	7'96	13'04
Darjiling	42'72	29'64	18'20	Poori	13'20	21'12	16'44
Dacca	14'36	13'12	12'12	Total	20'72	22'44	22'24

It will be seen that the highest birth rate during the third quarter of 1890 occurred in the town of Darjiling (42·72) and the lowest in Jessore (7·52). The supposed standard in India is 40 per thousand, but only in Darjiling town out of the twenty-seven principal towns of Bengal was this standard reached during the quarter under report. The nearest approach to it was attained in the towns of Monghyr (37·24) and Rampore Beaulah (34·12). In only three, however, out of the twenty-seven principal towns of the province,—viz. Darjiling, Monghyr, and Rampore Beaulah—did the statistics of birth registration exceed 30 per thousand. In all the rest the rate was very low, especially in the towns of Bali, Krishnagar, Ranaghat, Jessore, Dacca, Chittagong, Patna City, Purneah, and Poori, where the statistics are so imperfectly recorded that the ratio was less than 15 per thousand of population.

DEATHS.

The deaths registered in the twenty-seven principal towns of Bengal during the quarter ending with September 1890 were 6,200, and correspond to an annual rate of 23·36 per 1,000 of the aggregate population of those towns. This rate is 6·40 lower than the mean rate of the corresponding period of the past five years 1885—89, and is also lower than the recorded mortality of the corresponding quarter of any of the past five years with which comparison is instituted, *vide* the figures below:—

	QUARTER ENDING 30TH SEPTEMBER OF—					
	1885.	1886.	1887.	1888.	1889.	Quarterly average of five years 1885—89.
Ratio of deaths per 1,000 of the population per annum	35·44	29·92	26·72	27·36	29·44	29·76
	23·36					

The deaths registered in each of the twenty-seven principal towns during the third quarters of 1890, 1889, and the average of the five years 1885—89, correspond to the following rates per 1,000 of the population of those towns:—

TOWNS.	RATIO PER MILLE.			TOWNS.	RATIO PER MILLE.		
	Quarter ending 30th Sept. of—				Quarter ending 30th Sept. of—		
	1890.	1889.	Average of five years 1885—89.		1890.	1889.	Average of five years 1885—89.
Burdwan	20.72	27.44	25.08	Narainganj	15.91	21.96	18.19
Midnapore	19.40	20.96	20.84	Chittagong	17.88	12.44	19.12
Hughli and Chinsurah	23.24	30.52	27.12	Comillah	21.33	17.74	20.72
Serampore	42.72	42.72	35.76	Patna City	17.52	19.56	25.08
Utterpara	28.28	31.20	21.04	Gya	45.60	62.60	72.88
Howrah	14.96	18.52	17.36	Arrah	24.20	26.20	30.80
Balli	20.76	18.88	16.72	Mozafferpore	23.64	27.76	27.40
Krishnagar	9.28	14.52	16.28	Durbhanga	28.68	31.60	26.00
Ranaghat	17.04	11.48	7.36	Chupra	24.04	34.36	32.88
Santipore	14.92	12.52	9.56	Bhagalpore	19.28	31.36	39.04
Jessore	26.36	21.16	14.12	Monzhyr	31.32	47.56	39.84
Rampore Bonaulah	23.24	31.22	29.48	Purneah	15.16	15.68	22.08
Darjiling	45.00	45.00	31.20	Poori	37.12	72.44	71.88
Dacca	21.48	29.64	17.20	Total	23.36	29.44	29.76

The highest mortality during the third quarter of 1890 occurred in the town of Gya (45.60) and the lowest in Krishnagar (9.28). The total mortality of the twenty-seven principal towns in 1890 is lower than the total rates of the two past periods with which it is compared. Registration of deaths was particularly low in the towns of Krishnagar, Santipore, Howrah, Purneah, Narainganj, Ranaghat, Patna City, Chittagong, Bhagalpore, and Midnapore, where the ratios are less than 20 per thousand of population.

The total mortality during the quarter under review from the several registered death-causes is compared in the following table with the mortality from those causes in the corresponding quarters of 1889 and the average of the five years 1885—89:—

	RATIO PER MILLE DURING THE—		
	Quarter ending 30th September 1890.	Quarter ending 30th September 1889.	Quarterly average of quarter ending 30th September 1885—89.
Cholera	3.36	4.44	5.72
Small-pox	.16	.24	.12
Fever	9.60	10.96	10.93
Bowel-complaints	3.00	4.20	4.00
Injury	.52	.52	.60
Other causes	6.60	8.96	8.28

The above statement, compared with the figures of both the past periods, shows a noticeable decrease in the mortality of the 3rd quarter of 1890 under the heads cholera, fever, bowel-complaints, and other causes.

The highest annual death-rates from the several registered death-causes occurred in the following towns:—

Cholera.	Fever.	Bowel-complaints.	Other causes.
Ratio per mille.	Ratio per mille.	Ratio per mille.	Ratio per mille.
Chupra ... 11.92	Darjiling ... 25.04	Darjiling ... 14.24	Serampore ... 16.72
Mozafferpore ... 7.76	Gya ... 21.48	Utterpara ... 10.16	Gya ... 15.48
Arrah ... 7.52			Poori ... 14.52
Gya ... 6.80			Utterpara ... 10.16
Durbhanga ... 6.80			
Santipore ... 4.44			
Patna City ... 4.08			
Serampore ... 3.16			
Midnapore ... 2.72			
Poori ... 2.24			

The mortality of the quarter under review according to Sex, Class and Age was distributed as follows:—

According to Sex.	According to Class.	According to Age.
Ratio per mille.	Ratio per mille.	Ratio per mille.
Males ... 24.40	Christians ... 17.80	Under 1 year ... 189.40
Females ... 22.20	Hindus ... 24.44	1 year and under 5 years ... 35.92
Ratio of male deaths to every 100 female deaths calculated on the proportion such mortality bears to the total male and female population ... 109	Mahomedans ... 20.88	5 years " 10 " ... 14.76
	Buddhists ... 3.92	10 " " 15 " ... 12.28
	Other Classes ... 5.88	15 " " 20 " ... 14.08
		20 " " 30 " ... 12.40
		30 " " 40 " ... 13.64
		40 " " 50 " ... 17.00
		50 " " 60 " ... 24.80
		60 years and upwards ... 55.16

Detailed information regarding the vital statistics of the twenty-seven principal towns of Bengal of the quarter under review will be found in the statement appended.

The 22nd December 1890.

W. H. GREGG, Dip. Publ. Health, Camb.,
Sanitary Commissioner for Bengal.

DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.				BIRTHS.				MORTALITY ACCORDING TO—										Ratio of male deaths to every 100 female deaths calculated in the proportion of male and female population.	
		SEX.		SEX.		SEX.		SEX.		DISEASES.											
		NUMBER OF—		RATIO PER 1,000 OF POPULATION PER ANNUM.		DEATHS FROM—		RATIO PER 1,000 OF POPULATION PER ANNUM.		All causes.											
		Males.	Females.	Total.	Sex.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	Ratio of deaths per annum in the previous quarter.	Males.	Females.	Ratio of male deaths to every 100 female deaths calculated in the proportion of male and female population.	SEX.					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
Burdwan	Burdwan	16,043	16,017	32,060	2,107	100	207	12,552	11,72	94.28	107	1	1	1	1	1	1	1	1	1	
Midnapore	Midnapore	16,927	16,835	33,762	63	71	133	7,33	8,44	15.84	87	93	2	3	2	3	3	3	3	3	
Hughli	Hughli	15,858	15,859	31,717	97	103	200	12,24	13,00	25.24	94	1	7	1	7	1	7	1	7	1	
Serampore	Serampore	13,559	12,937	26,496	117	73	159	17,64	10,84	28.52	163	31	...	...	...	...	...	...	...	...
Howrah	Howrah	55,153	37,560	92,713	13	18	33	10,83	13,04	23.92	83	17	2	...	...	...	...	...	...	...
Nudda	Nudda	13,558	14,314	27,872	42	56	98	6,08	8,12	14.24	75	...	...	...	...	...	...	...	...	...
Jessore	Jessore	4,290	3,865	8,155	8	8	16	3,76	3,76	7.52	109	...	...	...	...	...	...	...	...	...
Rajshahye	Rajshahye	10,756	9,025	19,781	89	80	169	17,08	16,16	34.12	111	1	...	...	...	...	...	...	...	...
Darjiling	Darjiling	4,579	2,439	7,018	37	38	75	21,08	21,64	42.72	97	...	...	...	...	...	...	...	...	...
Dacca	Dacca	42,752	37,379	80,131	144	144	288	7,16	7,16	14.36	100	29	...	...	...	...	...	...	...	...
Chittagong	Chittagong	13,340	8,700	22,040	29	24	53	5,24	4,82	9.56	120	3	1	1	1	1	1	1	1	1	
Tripura	Tripura	8,153	5,353	13,506	29	27	56	5,30	7,06	16.56	107	...	...	...	...	...	...	...	...	...
Patna	Patna	78,763	81,476	160,239	137	216	353	8,40	6,12	14.52	137	165	6	216	6	216	6	216	6	216	
Gya	Gya	38,290	37,831	76,121	254	257	511	12,84	13,48	26.36	102	130	1	409	1	409	1	409	1	409	
Shahabad	Shahabad	20,580	22,606	43,186	179	146	325	16,44	13,40	29.88	122	82	3	119	3	119	3	119	3	119	
Morshapora	Morshapora	23,084	19,658	42,742	98	98	196	9,16	8,96	18.12	103	83	2	73	2	73	2	73	2	73	
Durban	Durban	33,774	32,342	66,116	216	199	415	13,04	12,04	25.08	108	113	1	195	1	195	1	195	1	195	
Saran	Saran	25,116	26,454	51,570	150	107	257	9,38	8,28	17.56	112	154	6	53	6	53	6	53	6	53	
Bhagalpur	Bhagalpur	22,640	27,813	50,453	200	153	353	13,42	10,56	24.48	131	6	...	...	...	...	...	...	...	...
Monghyr	Monghyr	28,154	29,866	58,020	276	276	552	13,08	10,16	23.24	94	17	...	...	...	...	...	...	...	...
Purneah	Purneah	8,463	6,535	15,000	23	23	46	6,12	6,12	13.04	113	1	...	...	...	...	...	...	...	...
Poori	Poori	13,247	11,537	24,784	46	56	102	7,40	5,80	13.20	127	14	5	80	5	80	5	80	5	80	
TOTAL	TOTAL	550,866	510,588	1,061,454	2,099	2,094	4,193	10,36	9,76	20.72	112	897	48	2,558	48	2,558	48	2,558	48	2,558	

DISTRICTS.		MORTALITY ACCORDING TO—										Age.																			
		DEATHS AMONG—					DEATHS.					RATIO PER 1,000 OF POPULATION PER ANNUM.																			
		NAMES OF MUNICIPALITIES.					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.					RATIO PER 1,000 OF POPULATION PER ANNUM.														

OFFICE OF SANITARY COMMISSIONER FOR BENGAL;
The
December 1890.

W. H. GREGG, Dip. Publ. Health, Camb.,
Sanitary Commissioner for Bengal.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 6th December 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 6th December 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 30.5 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3.3 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years with which comparison is instituted, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	25.6	27.5	27.5	27.3	28.4	27.2	30.5

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	13th Nov. 1890.	22nd Nov. 1890.	29th Nov. 1890.	6th Dec. 1890.		13th Nov. 1890.	22nd Nov. 1890.	29th Nov. 1890.	6th Dec. 1890.
Burdwan	21.4	32.7	33.6	44.2	Narainganj	74.5	37.3	91.1	74.5
Midnapore	18.5	23.2	26.3	29.4	Chittazong	16.4	9.4	4.7	18.8
Hughli and Chinsurah	32.8	44.3	34.6	29.5	Comillah	23.1	27.0	42.4	50.1
Serampore	55.0	43.2	33.4	25.5	Patna City	10.7	13.3	12.3	15.3
Utterpara	37.7	56.6	56.6	37.7	Gya	21.9	34.2	21.9	27.3
Howrah	28.1	36.1	31.5	30.9	Arrah	10.8	33.5	10.8	29.9
Bali	21.1	31.6	14.0	35.1	Mozufferpore	32.8	10.9	24.3	31.0
Krishnagar	13.2	11.4	9.5	13.2	Durbhanga	36.3	40.1	46.4	44.1
Ranaghat	24.0	12.0	6.0	6.0	Chupra	14.1	22.1	21.1	35.2
Santipore	19.3	24.5	22.8	17.5	Bhagulpore	37.1	24.4	40.7	31.7
Jessore	30.6	6.1	6.1	...	Monghyr	30.7	38.9	37.1	41.6
Rampore Beaulah	44.7	52.3	42.9	44.7	Purneah	6.9	10.4	17.3	17.3
Darjiling	44.5	29.6	44.5	29.6	Poori	14.7	14.7	12.6	33.6
Dacca	24.0	31.1	31.1	42.3	Total	24.2	27.6	29.5	30.5

It will be seen that last week the highest birth-rate was returned from Narainganj (74.5) and the lowest from Ranaghat (6). No births were registered during the week in Jessore town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 31.5 per 1,000 of the population. The rate of the week is 1.4 below the average rate of the corresponding week of the past five years, and is higher than the rate of the corresponding week of any of the past five years except 1885 and 1886, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	35.3	40.2	26.3	30.3	29.6	32.9	31.5

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	13th Nov. 1890.	22nd Nov. 1890.	29th Nov. 1890.	6th Dec. 1890.		13th Nov. 1890.	22nd Nov. 1890.	29th Nov. 1890.	6th Dec. 1890.
Burdwan	22.9	33.6	41.3	27.5	Narainganj	58.0	58.0	120.1	120.1
Midnapore	29.4	29.4	20.1	29.4	Chittazong	14.1	9.4	18.8	28.2
Hughli and Chinsurah	52.5	37.7	27.9	29.5	Comillah	19.3	23.1	30.8	39.8
Serampore	72.6	86.4	55.0	68.7	Patna City	14.3	14.3	14.6	11.0
Utterpara	66.1	28.3	75.6	66.1	Gya	44.4	40.9	30.1	62.8
Howrah	23.9	26.9	26.9	44.7	Arrah	12.0	13.2	7.2	23.9
Bali	21.1	17.5	17.5	21.1	Mozufferpore	17.0	17.0	14.6	23.1
Krishnagar	6.7	6.7	6.7	18.9	Durbhanga	18.9	31.0	27.5	26.0
Ranaghat	12.0	30.0	35.0	12.0	Chupra	8.0	13.1	8.0	27.2
Santipore	7.0	17.5	8.8	19.3	Bhagulpore	17.2	19.0	15.4	23.5
Jessore	49.0	18.4	36.7	18.4	Monghyr	27.1	26.2	28.0	23.0
Rampore Beaulah	18.1	47.3	47.3	31.5	Purneah	13.9	6.9	20.8	13.9
Darjiling	7.4	...	22.3	51.9	Poori	62.0	58.7	96.5	73.4
Dacca	15.6	45.4	28.3	31.1	Total	23.4	28.1	25.7	31.5

It will be seen that last week the highest mortality occurred in the town of Narainganj (120·1) and the lowest in Patna City (11·).

Measured by last week's mortality, the highest annual death-rates from the several registered death-causes occurred in the following towns:—

<i>Cholera.</i>	<i>Small-pox.</i>	<i>Fever.</i>	<i>Bowel-complaints.</i>	<i>Other causes.</i>
Ratio per mille.	Ratio per mille.	Ratio per mille.	Ratio per mille.	Ratio per mille.
Narainganj 62·1	Chittagong 9·4	Darjiling ... 44·5	Serampore 11·8	Serampore ... 27·5
Howrah ... 14·9		Poori ... 35·6		Gya ... 26·6
Serampore 13·7		Gya ... 33·5		Poori ... 23·1
Dacca ... 5·8		Narainganj ... 29·0		Midnapore ... 21·7
		Arrah ... 21·5		Hughli and Chinsurah 11·5
		Burdwan ... 21·4		Howrah ... 11·5
		Rampore Beaulah 21·0		Chupra ... 11·1
				Dacca ... 10·4

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 3·9 from cholera, against 3·5 per 1,000 in the preceding week; 5 from small-pox, against 1; 13·7 from fever, against 11·7; 3·3 from bowel-complaints, against 2·5; 4 from injury, against 3; and 9·7 from other causes, against 7·5 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

<i>According to Sex.</i>	<i>According to Class.</i>	<i>According to Age.</i>
Ratio per mille.	Ratio per mille.	Ratio per mille.
Males ... 33·2	Christians ... 22·4	Under 1 year ... 233·5
Females ... 29·7	Hindus ... 33·9	1 and under 5 years ... 36·4
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population... 111	Mahomedans ... 26·1	5 " 10 " ... 19·3
		10 " 15 " ... 14·0
		15 " 20 " ... 24·4
		20 " 30 " ... 20·7
		30 " 40 " ... 23·4
		40 " 50 " ... 18·7
		50 " 60 " ... 34·9
		60 years and upwards ... 79·1

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

The 23rd December 1890.

Sanitary Commissioner for Bengal.

[illegible]

			13			14			15			16			MORTALITY ACCORDING TO—											
															Age.											
															Ratio per 1,000 of Population per annum.											
															Ratio per 1,000 of Population per annum.											
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W. H. GREGG, Dip. Publ. Health, Camb.,

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing Quantities of Goods carried during the month of September 1890.

ORISSA CIRCLE.

TALDUNDA CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDA CANAL, 27 MILES.
MACHGONG „ 4 „

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
16	1. Grain ...	18	72	90	4,542	90	4,542	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....
2	4. Salt ...	.....	7	7	375	7	375	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....	.....
...	7. Building materials ...	.....	.....	.....	.....	.....	.....
24	8. Miscellaneous ...	23	161	184	2,938	184	2,938	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....
...	10. Timber ...	.....	.....	.....	.....	.....	.....
1 raft	11. Bamboos ...	.....	7,300 No.	7,300 No.	50	7,300 No.	50	
42 & 1 raft.	12. Total ...	{ 41	240 & 7,300 No.	281 & 7,300 No.	{ 7,905	{ 281 & 7,300 No.	{ 7,905	
36 & rafts.	13. Total of same month last year.	{ 30	342	372	{ 15,513	{ 356	{ 10,453	
		Up.	Down.	Total.				Rs. A. P.
14.	Total number of boats plying cargo No.	11	31	42	Total tollage of month—24 + 25 + 26 ...			103 8 6
15.	Total number of boats plying passenger No.	.....	.....	.....	Total tollage of same month last year ...			138 14 3
15½.	Do. empty boats, private,,	31	8	39				
16.	Total registered tonnage, cargo Tons	41	240	281				
16½.	Do. empty Govt. No.	.....	1	1				
17.	Total registered tonnage, passenger Tons	.....	.....	.....	Memorandum of Tollage.			
18.	Ton-mileage ...	3,542	6,076	9,618				
19.	Estimated value of cargo Rs.	2,130	5,725	7,855				
20.	Number of passengers ...	.....	.....	...	
21.	Rafts, bamboos No.	.....	7,300	7,300				
22.	Do., bullahs „	.....	.....	.....	
23.	Estimated value of rafts Rs.	.....	50	50				
24.	Tollage on boats „	24-13-0	73-5-0	98-2-0				
24½.	Do. do. empty Govt., „	.....	3-2-0	3-2-0				
25.	Compounded tollage on boats Rs.	.....	.....	.....	
26.	Tollage on rafts „	.....	2-4-6	2-4-6				
27.	Total tollage on boats per ton-mile „	.....	...	0-0-2-00				
28.	Total tollage on rafts per 100 cubic feet Rs	.....	.....	.....	
								Rs. A. P.
					1. Balance not recovered on the 1st of the month ...			49 9 6
					2. Tollage per month ...			103 8 6
					3. Total ...			153 2 0
					4. Amount credited in the accounts of the month ...			147 8 0
					5. Balance due at the end of the month ...			5 10 0

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
163	1. Grain ...	231	2,425	2,656	2,01,390	2,656	2,01,390	
2	2. Cotton ...	10	.....	10	2,800	10	2,800	
38	3. Oilseeds ...	.....	873	873	1,19,600	873	1,19,600	
12	4. Salt ...	19	18	37	4,000	37	4,000	
1	5. Piece-goods ...	26	.....	26	70,000	26	70,000	
2	6. Metal ...	20	...	20	1,500	20	1,500	
34	7. Building materials ...	15	420	435	11,100	406	11,060	
90	8. Miscellaneous ...	1,244	112	1,356	1,26,680	1,356	1,26,680	
14	9. Fuel ...	53	16	69	430	69	430	
4 rafts	10. Timber ...	.....	144 c. ft.	144 c. ft.	70	144 c. ft.	70	
1 raft	11. Bamboos ...	.....	25 „	25 „	10	25 „	10	
356 & 5 rafts.	12. Total ...	{ 1,618	3,864 & 169 c. ft.	5,482 & 169 c. ft. }	5,37,580	5,453 & 169 c. ft.	{ 5,37,540	
196 & 2 rafts.	13. Total of same month last year.	{ 895	1,081 & 375 c. ft.	1,976 & 375 c. ft. }	1,19,780 {	1,940 & 375 c. ft.	{ 1,19,610	
		Up.	Down.	Total.				
14. Total number of boats plying cargo No.		149	207	356	Total tollage of month— 24 + 25 + 26 ...			Rs. A. P. 7,059 7 9
15. Total number of boats plying passenger No.		48	52	100	Total tollage of same month last year ...			3,544 6 7
15½. Ditto empty boats „		209	116	325	Memorandum of Tollage.			
16. Total registered tonnage, cargo, private Tons		3,149	6,401	9,550				
16½. Ditto Government ditto „		...	43	43				
17. Total registered tonnage, passenger Tons		2,310	2,416	4,726				
17½. Ditto empty boats „		2,710	713	3,423				Rs. A. P.
18. Ton-mileage ...		341,931	345,985	687,916	1. Balance not recovered on the 1st of the month ...			7,613 9 6
19. Estimated value of cargo Rs.		2,02,920	2,34,580	5,37,500	2. Tollage per month ...			7,059 7 9
20. Number of passengers ...		1,438	1,508	2,946				
21. Rafts, bamboos C. ft.		.....	25	25				
22. Do., timbers „		...	144	144				
23. Estimated value of rafts Rs.		.....	80	80				
24. Tollage on boats „		2,891-7-2	4,162-7-4	7,053-14-6	3. Total ...			14,673 1 3
25. Compounded tollage on boats Rs.		.....	.....	.....	4. Amount credited in the accounts of the month ...			7,720 14 5
26. Tollage on rafts „		.....	5-9-3	5-9-3				
27. Total tollage on boats per ton-mile Rs.		.....	.....	0-0-2				
28. Total tollage on rafts per 100 cubic feet Rs.		.....	.....	3-4-9	5. Balance due at the end of the month ...			6,952 2 10

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.			REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
86	1. Grain ...	339	7	346	18,450	346	18,450	
4	2. Cotton ...	3	40	43	11,900	43	11,900	
30	3. Oilseeds ...	158	2	160	12,850	160	12,850	
63	4. Salt ...	.....	190	190	15,450	190	15,450	
3	5. Piece-goods ...	.....	10	10	5,600	10	5,600	
1	6. Metal ...	2	.....	2	600	2	600	
7	7. Building materials ...	15	11	26	180	26	180	
40	8. Miscellaneous ...	66	91	157	14,370	157	14,370	
2	9. Fuel ...	18	.....	18	50	18	50	
...	10. Timber ...	.....	.....	.....	.....	.....	.....
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....
236	12. Total ...	601	351	952	79,450	952	79,450	
220	13. Total of same month last year ...	660	287	947	45,870	876	45,770	
		Up.	Down	Total.				Rs. A. P.
14.	Total number of boats plying cargo No.	142	94	236	Total tollage of month—24 + 25 + 26 ...			988 2 0
15.	Total number of boats plying passenger No.	23	24	47	Total tollage of same month last year ...			575 4 6
15½.	Do. empty boats „	38	86	124	Memorandum of Tollage.			
16.	Total registered tonnage, cargo, private Tons	1,397	736	2,133				Rs. A. P.
16½.	Ditto Govt. stores „	.....	.....	.....	
17.	Total registered tonnage, passenger Tons	343	391	734	1. Balance not recovered on the 1st of the month ...			413 5 9
17½.	Do. empty. boats „	157	455	612	2. Tollage per month ...			988 2 0
18.	Ton-mileage ...	57,693	37,007	94,700	3. Total ...			1,401 7 9
19.	Estimated value of cargo Rs.	35,230	44,220	79,450	4. Amount credited in the accounts of the month			1,089 15 9
20.	Number of passengers ...	318	399	717	5. Balance due at the end of the month ...			311 8 0
21.	Rafts, bamboos C. ft.	.....	.....	.....	
22.	Do., bullahs „	.....	.....	.....	
23.	Estimated value of rafts Rs.	.....	.....	.....	
24.	Tollage on boats „	563-0-3	425-1-9	988-2-0				
25.	Compounded tollage on boats Rs.	.....	.....	.....	
26.	Tollage on rafts „	.....	.....	.....	
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2-0				
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....	

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Total.	Tons.	Rupees.	
19	1. Grain ...	27	25	52	52	2,863	
2	2. Cotton ...	.....	4	4	8	440	
4	3. Oilseeds ...	4	11	15	15	1,985	
...	4. Salt ...	.....	.....	.....	.....	.....
...	5. Piece-goods ...	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....
1	7. Building materials ...	.....	2	2	.....	10	
23	8. Miscellaneous ...	5	51	56	56	5,651	
2	9. Fuel ...	.....	4	4	4	200	
...	10. Timber ...	.....	.....	.....	.....	.....
...	11. Bamboos ...	.....	.....	.....	.....	.....
51	12. Total ...	36	97	133	135	11,149	
121 & 4 rafts.	13. Total of same month last year.	{ 70	{ 221½ & 108 c. ft.	{ 291½ & 108 c. ft.	{ 145½ & 108 c. ft.	{ 15,329 { 15,040	
		Up.	Down.	Total.			
14.	Total number of boats plying cargo ... No.	19	32	51	Total tollage of month— 24 + 25 + 26 ...		Rs. A. P. 213 7 9
15.	Total number of boats plying passenger ... No.	19	22	41			
15½.	Ditto empty ...	27	17	44	Total tollage of same month last year ...		199 2 0
16.	Total registered tonnage, cargo Tons	69	192	261			
16½.	Ditto Govt. ...	.....	4	4	Memorandum of Tollage.		
17.	Total registered tonnage, passenger Tons	421	471	892			
17½.	Ditto empty boats ...	77	35	112			
18.	Ton-mileage ...	6,784	8,364	15,148	1. Balance not recovered on the 1st of the month ...		Rs. A. P. 8 11 4
19.	Estimated value of cargo Rs.	2,306	8,843	11,149			
20.	Number of passengers ...	261	262	523			
21.	Rafts, bamboos C. ft	.....	.....	.....	2. Tollage per month ...		213 7 9
22.	Do., bullahs ...	.....	.....	.....
23.	Estimated value of rafts Rs.	.....	.....	.....	3. Total ...		222 3
24.	Tollage on boats ...	92-2-0	121-5-9	213-7-9			
25.	Compounded tollage on boats Rs.	.....	.....	.....	4. Amount credited in the accounts of the month ...		222 3
26.	Tollage on rafts ...	.....	.....	.....
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2-70			
28.	Total tollage on rafts, per 100 cubic feet Rs.	.....	.....	.....	5. Balance due at the end of the month ...		0 0

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
8	1. Grain ...	14	.....	14	874	14	874	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....
1	4. Salt ...	.....	4	4	488	4	488	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....	.....
2	7. Building materials ...	.....	4	4	139	...	...
4	8. Miscellaneous ...	.....	26	26	3,950	26	3,950	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....
...	10. Timber ...	.....	.....	.....	.....	.....	.....
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....
15	12. Total ...	14	34	48	5,451	44	5,312	
68 & 1 raft.	13. Total of same month last year ...	{ 159	61½ & 90 c. ft.	220½ & 90 c. ft.	{ 14,339	187½ & 90 c. ft.	{ 13,950	

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	8	7	15	Total tollage of month— 24 + 25 + 26 ...	167 14 6
15. Total number of boats plying passenger No.	17	19	36	Total tollage of same month last year ...	102 10 0
15½. Ditto empty "	9	9	18		
16. Total registered tonnage, cargo Tons	33	47	80		
16½. Ditto Govt. ditto "	.....	13	13		
17. Total registered tonnage, passenger Tons	403	444	847		
17½. Ditto empty boats "	33	20	53		
18. Ton-mileage ...	8,931	9,956	18,887		
19. Estimated value of cargo Rs.	874	4,577	5,451		
20. Number of passengers ...	214	143	357		
21. Rafts, bamboos No.	.....	.....	.....
22. Do., bullahs C. ft.	.....	.....	.....
23. Estimated value of rafts Rs.	.....	.....	.....
24. Tollage on boats "	78-2-0	89-12-6	167-14-6		
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts "	.....	.....	.....
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1-70		
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....
				1. Balance not recovered on the 1st of the month ...	.....
				2. Tollage per month ...	167 14 6
				3. Total ...	167 14 6
				4. Amount credited in the accounts of the month ...	167 14 6
				5. Balance due at the end of the month ...	.....

JAJEPORE CANAL.

LENGTH OF CANAL OPEN, 6½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Total. Rupees.	Tons.	Rupees.	
36	1. Grain ...	...	35	35	1,918	35	1,918
1	2. Cotton ...	...	1½	1½	65	1½	65
1	3. Oilseeds ...	...	1½	1½	40	1½	40
...	4. Salt ...	...	...	...	...	...	...
...	5. Piece-goods ...	...	...	...	...	...	...
...	6. Metal ...	...	...	...	...	...	...
1	7. Building materials ...	...	7	7	15	7	15
8	8. Miscellaneous ...	1	7	8	888	8	888
1	9. Fuel ...	...	5	5	40	5	40
30 rafts.	10. Timber ...	...	6,894 c. ft.	6,894 c. ft.	841	6,894 c. ft.	841
...	11. Bamboos ...	...	...	...	...	...	...
48 & 30 rafts.	12. Total ...	{ 1	55& 6,894 c. ft.	56& 6,894 c. ft.	3,807 {	56& 6,894 c. ft.	3,807
21 & 5 rafts.	13. Total of same month last year.	{	12& 1,980 c. ft.	12& 1,980 c. ft.	1,471 {	12& 1,980 c. ft.	1,471
		Up.	Down.	Total.			Rs. A. P.
14. Total number of boats plying cargo No.		4	44	48	Total tollage of month— 24 + 25 + 26 ...		35 6 0
15. Total number of boats plying passenger No.		2	3	5	Total tollage of same month last year ...		8 15 0
15½. Ditto empty "		20	1	21			
16. Total registered tonnage, cargo Tons		8	95	103			
16½. Ditto Govt. "		.....	.....	.....	Memorandum of Tollage.		
17. Total registered tonnage, passenger Tons		15	25	40			
17½. Ditto empty "		36	1	37			
18. Ton-mileage ...		354	732	1,086	1. Balance not recovered on the 1st of the month ...		8 7 6
19. Estimated value of cargo Rs.		228	2,738	2,966	2. Tollage per month ...		35 6 0
20. Number of passengers ...		6	18	24	3. Total ...		43 13 6
21. Rafts, bamboos C. ft.		.....	.....	.....
22. Do., bullahs "		.....	6,894	6,894			
23. Estimated value of rafts Rs.		.....	841	841	4. Amount credited in the accounts of the month ...		43 13 6
24. Tollage on boats "		6-0-9	12-11-0	18-11-9			
25. Compounded tollage on boats Rs.		.....	.....	.....
26. Tollage on rafts "		.....	16-10-3	16-10-3			
27. Total tollage on boats per ton-mile Rs.		.....	.....	0-0-3-30			
28. Total tollage on rafts per 100 cubic feet Rs.		.....	.....	0-3-10	5. Balance due at the end of the month ...		.....

SOUTH-WESTERN CIRCLE.
MIDNAPORE CANAL.
LENGTH OF CANAL OPEN, 53 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.		Tons.	Rupees.	
689	1. Grain ...	4,072	303	4,375	2,74,988	4,375	2,74,988	
2	2. Cotton ...	.....	3	3	1,302	3	1,302	
33	3. Oilseeds ...	133	123	256	27,406	256	27,406	
127	4. Salt ...	.....	1,301	1,301	1,31,947	1,301	1,31,947	
26	5. Piece-goods ...	47	55	102	2,62,400	102	2,62,400	
13	6. Metal ...	17	43	60	40,942	60	40,942	
43	7. Building materials	162	77	239	2,225	239	2,225	
432	8. Miscellaneous ...	868	759	1,627	4,62,926	1,627	4,62,926	
42	9. Fuel ...	158	81	239	2,150	239	2,150	
52 rafts	10. Timber ...	12,635 c. ft.	24 c. ft.	12,659 c. ft.	10,953	12,659 c. ft.	10,953	
5 "	11. Bamboos ...	2,750 "	.....	2,750 "	345	2,750 "	345	
1,407 & 57 rafts.	12. Total ...	{ 5,457 & 15,385 c. ft.	2,745 & 24 c. ft.	8,202 & 15,409 c. ft.	{ 12,17,584	{ 8,202 & 15,409 c. ft.	{ 12,17,584	
1,902 & 50 rafts.	13. Total of same month last year.	{ 7,412 & 13,839 c. ft.	4,141	11,553 & 13,839 c. ft.	{ 13,33,344	{ 11,553 & 13,839 c. ft.	{ 13,33,344	

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	872	535	1,407	Total tollage of month— 24 + 25 + 26 ...	8,181 14 0
15. Total number of boats plying passenger No.	612	717	1,329	Total tollage of same month last year ...	10,571 10 3
15½. Ditto empty "	409	479	888		
16. Total registered tonnage, cargo Tons	12,377	6,898	19,275		
17. Total registered tonnage, passenger Tons	3,868	3,538	7,406		
17½. Ditto empty "	1,737	2,212	3,949		
18. Ton-mileage ...	308,100	202,389	510,489		
19. Estimated value of cargo Rs.	5,71,486	6,34,800	12,06,286		
20. Number of passengers ...	6,745	9,001	15,746		
21. Rafts, bamboos C. ft.	2,750	.....	2,750		
22. Do., bullahs "	12,635	24	12,659		
23. Estimated value of rafts Rs.	11,207	91	11,298		
24. Tollage on boats "	4,867-15-3	3,022-15-6	7,890-14-9		
25. Compounded tollage on boats Rs	.....	.....	.....
26. Tollage on rafts "	290-7-3	0-8-0	290-15-3		
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2-9		
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	1-14-3		
				1. Balance not recovered on the 1st of the month ...	4,991 6 1
				2. Tollage per month ...	8,181 14 0
				3. Total ...	13,173 4 1
				4. Amount paid into treasury during the month ...	6,097 1 0
				5. Balance due at the end of the month ...	7,076 3 1

HIDGELLIE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
278	1. Grain ...	2,066	.....	2,066	97,375	2,066	97,375	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
5	3. Oilseeds ...	20	3	23	2,740	23	2,740	
40	4. Salt ...	.....	403	403	44,990	403	44,990	
6	5. Piece-goods ...	.....	28	28	19,625	28	19,625	
5	6. Metal ...	32	1	33	4,650	33	4,650	
4	7. Building materials ...	.....	52	52	920	52	920	
560	8. Miscellaneous ...	629	494	1,123	84,842	1,123	84,842	
3	9. Fuel ...	.....	21	21	150	21	150	
3 rafts	10. Timber ...	.....	214 c. ft.	214 c. ft.	213	214 c. ft.	213	
1 raft	11. Bamboos ...	.....	25 "	25 "	1	25 "	1	
901 & 4 rafts.	12. Total ...	{ 2,747 }	{ 1,002 & 239 c. ft. }	{ 3,749 & 239 c. ft. }	{ 2,55,506 }	{ 3,749 & 239 c. ft. }	{ 2,55,506 }	
1,084 & 3 rafts.	13. Total of same month last year.	{ 2,975 & 203 c. ft. }	{ 1,142 & 36 c. ft. }	{ 4,117 & 239 c. ft. }	{ 2,57,640 }	{ 4,069 & 239 c. ft. }	{ 2,57,240 }	
		Up.	Down.	Total.				
14.	Total number of boats ply- ing cargo No.	447	454	901	Total tollage of month— 24 + 25 + 26 ...			Rs. A. P. 3,164 2 9
15.	Total number of boats ply- ing passenger No.	48	45	93	Total tollage of same month last year			3,509 14 3
16.	Total registered tonnage, cargo Tons	6,181	3,882	10,063	Memorandum of Tollage.			
17.	Total registered tonnage, passenger Tons	270	296	566				
18.	Ton-mileage ...	105,373	75,365	1,80,738				
19.	Estimated value of cargo Rs.	1,17,156	1,38,136	2,55,292				
20.	Number of passengers ...	497	491	988	1. Balance not recovered on the 1st of the month ... 2,358 13 6			
21.	Rafts, bamboos C. ft.	.....	25	25	2. Tollage per month ... 3,164 2 9			
22.	Do., bullahs "	.....	214	214				
23.	Estimated value of rafts Rs.	.....	214	214	3. Total ... 5,523 0 3			
24.	Tollage on boats "	1,843-11-9	1,306-12-6	3,150-8-3				
25.	Compounded tollage on boats Rs.	.....	12-5-6	12-5-6	4. Amount paid into 'treasury during the month ... 4,393 5 6			
26.	Tollage on rafts "	.....	1-5-0	1-5-0				
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3-3				
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-8-9	5. Balance due at the end of the month 1,129 10 1			

SONE CIRCLE.
PATNA CANAL SYSTEM.
LENGTH OF CANAL OPEN, 86½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
39	1. Grain ...	.....	599	599	48,136	599	48,136	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
3	3. Oilseeds ...	3	61	64	8,479	64	8,479	
...	4. Salt ...	71	.....	71	7,952	71	7,952	
15	5. Piece-goods. ...	89	11	100	21,515	100	21,515	
...	6. Metal ...	5	1	6	1,154	6	1,154	
13	7. Building materials ...	59	52	111	1,934	62	724	
31	8. Miscellaneous ...	181	150	331	63,451	331	63,451	
...	9. Fuel rafts	.....	10	10	20	10	20	
...	10. Timber "	.....	7	7	45	7	45	
...	11. Bamboos "	.....	9	9	200	9	200	
101	12. Total ...	408	900	1,308	1,52,886	1,259	1,51,676	
135	13. Total of same month last year ...	435	994	1,429	1,50,000	1,326	1,49,240	
		Up.	Down.	Total.				Rs. A. P.
14.	Total number of boats ply- ing cargo No.	36	65	101	Total tollage of month— 24 + 25 + 26 ...			1,286 13 3
15.	Total number of boats ply- ing passenger No.	5	6	11				
15½.	Ditto of empty boats "	64	11	75	Total tollage of same month last year ...			1,723 0 6
16.	Total registered tonnage, cargo Tons	592	1,274	1,866				
17.	Total registered tonnage, passenger Tons	166	207	373				
17½.	Ditto empty boats "	274	52	326	Memorandum of Tollage.			
18.	Ton-mileage ...	55,890	80,672	136,562				Rs. A. P.
19.	Estimated value of cargo Rs.	39,619	1,13,002	1,52,621	1. Balance not recovered on the 1st of the month ...			173 10 0
20.	Number of passengers ...	255	392	647	2. Tollage per month ...			1,286 13 3
21.	Rafts, bamboos C. ft.	.....	1,330	1,330				
22.	Do., bullahs "	.....	1,242	1,242				
23.	Estimated value of rafts Rs.	.....	265	265	3. Total ...			1,460 7 3
24.	Tollage on boats "	406-10-3	718-7-0	1,125-1-3				
25.	Compounded tollage on boats Rs.	75-0-0	75-0-0	150-0-0				
26.	Tollage on rafts "	.....	11-12-0	11-12-0	4. Amount credited in the accounts of the month ...			1,370 1 6
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1-7				
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-7-3	5. Balance due at the end of the month ...			90 5 9

ARRAH CANAL SYSTEM.
LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
74	1. Grain ...	228	499	727	46,929	727	46,929	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
6	3. Oilseeds ...	.....	65	65	6,280	65	6,280	
27	4. Salt ...	306	...	306	23,748	306	23,748	
...	5. Piece-goods ...	18	1	19	58,950	19	58,950	
...	6. Metal ...	2	5	7	2,085	7	2,085	
2	7. Building materials ...	4	4	8	1,310	2	280	
37	8. Miscellaneous ...	19	357	376	19,678	308	19,437	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....
...	10. Timber ...	.....	.....	.....	.....	.....	.....
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....
146	12. Total ...	577	931	1,508	1,58,980	1,434	1,57,709	
235	13. Total of same month last year.	578	1,739	2,317	1,38,757	1,882	1,37,594	

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	57	89	146	Total tollage of month— 24 + 25 + 26 ...	1,687 11 0
15. Total number of boats plying passenger No.	3	3	6	Total tollage of same month last year ...	1,673 14 6
15½. Total number of empty boats No.	79	9	88		
16. Total registered tonnage, cargo Tons	948	1,700	2,648		
17. Total registered tonnage, passenger Tons	80	74	154		
17½. Total registered tonnage, empty Tons	385	53	438		
18. Ton-milage ...	58,102	75,950	134,052		
19. Estimated value of cargo Rs.	98,920	60,060	1,58,980	1. Balance not recovered on the 1st of the month ...	34 0 9
20. Number of passengers ...	902	945	1,847	2. Tollage per month ...	1,687 11 0
21. Rafts, bamboos C.ft.	.....	.....	.....
22. Do., bullahs "	.....	.....	.....
23. Estimated value of rafts Rs.	.....	.....	.....
24. Tollage on boats "	285-5-6	690-5-6	975-11-0	3. Total ...	1,721 11
25. Compounded tollage on boats Rs.	356-0-0	356-0-0	712-0-0	4. Amount credited in the accounts of the month ...	1,632 7 6
26. Tollage on rafts "	.....	.....	.....
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2½		
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....	5. Balance due at the end of the month ...	89 4 3

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
59	1. Grain ...	250	556	806	42,447	806	42,447	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....
1	4. Salt ...	8	.....	8	666	8	666	
1	5. Piece-goods ...	6	.....	6	2,900	6	2,900	
2	6. Metal ...	24	.....	24	3,040	14	2,940	
6	7. Building materials ...	32	51	83	490	.....	.....
46	8. Miscellaneous ...	11	532	543	23,217	543	23,217	
4	9. Fuel ...	.....	87	87	762	87	762	
...	10. Timber ...	.....	.....	.....	.....	.....	.....
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....
119	12. Total ...	331	1,226	1,557	73,522	1,464	72,932	
63	13. Total of same month last year.	280	539	819	28,974	513	27,516	

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	27	92	119		
15. Total number of boats plying passenger No.	8	10	18	Total tollage of month—	
15½. Ditto empty boats "	99	8	107	24 + 25 + 26 ...	1,020 11 6
16. Total registered tonnage, cargo Tons	431	1,628	2,059	Total tollage of same month last year ...	397 3 0
17. Total registered tonnage, passenger Tons	216	246	462		
17½. Ditto empty "	399	32	431		
18. Ton-mileage ...	33,422	52,855	86,277	Memorandum of Tollage.	
19. Estimated value of cargo Rs.	20,619	52,903	73,522		
20. Number of passengers ...	580	705	1,285		
21. Rafts, bamboos C. ft.	.....	.....	.....	1. Balance not recovered on the 1st of the month ...	23 8 6
22. Do., bullahs "	.....	.....	.....	2. Tollage per month ...	1,020 11 6
23. Estimated value of rafts Rs.	.....	.....	.....	3. Total ...	1,044 4 0
24. Tollage on boats " 233-8-6	573-3-0	806 11-6		4. Amount credited in the accounts of the month ...	987 0 0
25. Compounded tollage on boats Rs. 107-0-0	107-0-0	214-0-0		5. Balance due at the end of the month ...	57 4 0
26. Tollage on rafts "	.....	.....	
27. Total tollage on boats per ton-mile Rs. ....	.....	0-0-2 2			
28. Total tollage on rafts per 100 cubic feet Rs. ....	.....	.....	

**ABSTRACT FOR THE MONTH OF SEPTEMBER 1890 AS COMPARED WITH THE
CORRESPONDING MONTH OF THE PREVIOUS YEAR.**

CANAL.	TRAFFIC, 1890-91.		TRAFFIC, 1889-90.		REMARKS.
	During the month.	To end of the month.	During the month.	To end of the month.	
<i>Orissa Circle.</i>	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Taldunda Canal System ...	103 8 6	1,612 13 2	138 14 3	2,404 7 7	
Kendrapara Canal System	7,059 7 9	33,382 3 0	3,544 6 7	21,261 5 8	
High Level, Range I ...	988 2 0	4,851 11 9	575 4 6	3,398 12 8	
Ditto " II ...	213 7 9	1,642 14 3	199 2 0	1,477 0 8	
Ditto " III ...	167 14 6	1,213 5 3	102 10 0	736 15 9	
Jajepore Canal ...	35 6 0	135 9 10	8 15 0	44 0 8	
Total Orissa Circle ...	8,567 14 6	42,838 9 3	4,569 4 4	29,322 10 7	
<i>South-Western Circle.</i>					
Midnapore Canal ...	8,181 14 0	61,027 3 9	10,571 10 3	75,365 1 6	
Hidgellee Tidal Canal ...	3,164 2 9	17,918 1 9	3,509 14 3	27,987 7 9	
Total South-Western Circle	11,346 0 9	78,945 5 6	14,081 8 6	1,03,352 9 3	
<i>Sone Circle.</i>					
Patna Canal System ...	1,286 13 3	11,826 6 11	1,723 0 6	14,342 4 3	
Arrah ditto ...	1,687 11 0	10,574 8 6	1,673 14 6	10,018 3 5	
Buxar ditto ...	1,020 11 6	4,953 1 9	397 3 0	3,672 14 5	
Total Sone Circle ...	3,995 3 9	27,354 1 2	3,794 2 0	28,033 6 1	
GRAND TOTAL ...	23,909 3 0	1,49,137 15 11	22,444 14 10	1,60,708 9 11	

GOVERNMENT TRANSPORT SERVICE.

CANAL.	TRAFFIC, 1890-91.						TRAFFIC, 1889-90.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.
<i>Orissa Circle.</i>	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.
High Level ...	896	317	865 1 5	4,844	4,357	5,216 11 3	542	295	662 11 7	3,105	3,978	3,420 10 10
Total Orissa Circle ...	896	317	865 1 5	4,844	4,357	5,216 11 3	542	295	662 11 7	3,105	3,978	3,420 10 10

TOTAL NAVIGATION RECEIPTS.

CANAL	EARNINGS, 1890-91.		EARNINGS, 1889-90.		REMARKS.
	During the month.	To end of the month.	During the month.	To end of the month.	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Orissa Canals ...	9,432 15 11	48,055 4 6	5,231 15 11	32,743 5 5	
Midnapore Canal ...	8,181 14 0	61,027 3 9	10,571 10 3	75,365 1 6	
Hidgellee Tidal Canal ...	3,164 2 9	17,918 1 9	3,509 14 3	27,987 7 9	
Sone Canals ...	3,995 3 9	27,354 1 2	3,794 2 0	28,033 6 1	
Total ...	24,774 4 5	1,54,354 11 2	23,107 10 5	1,64,129 4 9	

CALCUTTA,
The 23rd December 1890.

G. A. G. SHAW,.
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.
IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1890-91.

Areas leased for irrigation up to the end of September 1890.

CIRCLE.	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilised.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	DETAILS OF AREAS LEASED.										Rainfall, 1890-91.		Rainfall, 1889-90.		REMARKS.
								Five years, all crops.	Five years, kharif.	Annual leases.						GRAND TOTAL.	During month.	Up to end of month.	During month.	Up to end of month.		
										Kharif.	Rabi.	Sugarcane.	Bhadol.	Hot-weather.	Total.							
			C. ft.	C. ft.	C. ft.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inches.	Inches.	Inches.	Inches.		
ORISSA	Cuttack	Taldunda, 1st reach	1,342	536	95	10,739	9,501	.....	10,296	.....	423	13	.....	.....	436	10,732	22-25	58-43	5-47	51-74	
		Ditto, 2nd "	506	153	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Machgong	776	234	186	29,741	27,329	.....	29,599	.....	128	14	.....	.....	142	29,741	16-32	51-02	3-55	47-00	
		Kendrapara	1,067	942-83	779-82	51,253	47,428	.....	51,720	.....	3,318	35	.....	.....	3,353	55,073	17-69	40-03	2-73	48-58	
		Gobri	372-82	33-68	66-93	4,709	1,844	.....	2,291	.....	208	1	.....	.....	209	2,500	16-65	44-54	5-79	52-12	
		Do. extension	27-01	63-05	8-578	1,840	.....	.....	2,147	.....	5	.....	.....	.....	5	2,152	No gauge fixed.				
		Patamondil	885	333-65	236-64	12,449	7,359	.....	10,864	.....	60	.....	.....	.....	60	10,724	.....	.....	.....	.....
		High Level, Range I	277-64	269-72	20,391	17,499	.....	25,259	.....	91	5	.....	.....	.....	96	25,355	11-10	39-55	9-52	53-77	
		Ditto, ditto II	757-16	99	2,525	2,359	.....	2,509	.....	29	.....	.....	.....	.....	29	2,529	.....	.....	.....	.....
		Ditto, ditto III	27-16	457	434	36,237*	35,749	.....	39,384	.....	.....	141	.....	.....	141	39,725	9-78	36-78	5-59	36-35	
		Total	.....	.....	.....	171,633	150,906	.....	174,060	.....	4,262	209	.....	.....	4,471	178,531	.....	.....	.....	.....
		Total of the corresponding period of last year	.....	.....	.....	.....	.....	.....	154,060	42	5,895	156	.....	.....	6,095	160,183	.....	.....	.....	.....
OUTH-WEST-ERN.	Midnapore	Midnapore	1,411	531	488	78,858	69,775	.....	71,897	.....	.....	.....	.....	.....	71,897	9-65	44-49	6-34	40-61	28 days discharging.	
		Panchkoora	522	57	48	4,615	3,909	.....	4,949	43	.....	.....	.....	.....	43	4,992	13-47	44-37	7-72	45-09	19 days discharging.
		Tidal reaches, Ranges I-II	.....	.....	.....	363	367	.....	386	.....	.....	.....	.....	.....	386	.....	.....	.....	.....
		Total	.....	.....	.....	78,836	64,141	.....	77,232	43	.....	.....	.....	.....	43	77,275	.....	.....	.....	.....
		Total of the corresponding period of last year	.....	.....	.....	.....	.....	.....	63,092	.....	.....	.....	.....	.....	63,092	.....	.....	.....	.....
SONE	Shahabad	Western Main	4,342	2,473	102	10,639	13,125	11,631	.....	1,753	.....	234	4	309	2,270	12,901	9-09	48-21	8-17	44-07	
		Buxar	1,276	692	315	43,823	60,381	51,066	.....	2,785	.....	1,169	71	2,506	6,631	58,197	.....	.....	.....	.....
		Arrah	2,000	1,568	1,400	110,732	112,078	92,781	.....	16,680	.....	2,217	113	5,669	24,079	117,460	8-21	59-03	5-44	39-39	
		Eastern Main	.....	.....	.....	1,446	1,139	.....	1,484	.....	71	.....	8	1	80	1,564	.....	.....	.....	.....
		Patna	1,486	1,103	949	49,895	45,911	40,446	.....	14,717	.....	435	203	.....	15,355	65,801	6-15	57-34	10-21	45-67	
		Patna Gya.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Total	.....	.....	.....	216,555	222,648	198,008	.....	35,976	.....	4,603	392	8,544	48,915	246,923	.....	.....	.....	.....
		Total of the corresponding period of last year	.....	.....	.....	.....	.....	.....	175,332	.....	59,891	.....	4,638	1,169	11,944	22,642	.....	.....	.....	.....
		Grand Total	.....	.....	.....	467,024	437,697	198,008	291,292	36,619	4,262	4,212	392	8,544	63,429	602,739	.....	.....	.....	.....
		Grand Total of the corresponding period of last year	175,832	217,182	59,933	5,895	4,794	1,169	11,944	83,735	476,249	

* This area has been reduced according to the revised permits received from the Revenue Department.

CALCUTTA,
The 22nd December 1890.

G. A. G. SHAW, E.
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

Statement showing heights over mean sea-level and low-water in the Rivers Ganges, Bhagiruthee, Jellinghee, and Brahmapootra for the month of September 1890.

DATE.	Miles.	RIVER GANGES.																RIVER BHAGIRUTHEE.		RIVER JELLINGHEE.		RIVER BRAHMAPOOTRA.							
		Mirzapur.		Benares.		Buxar.		Dinapur.		Monghyr.		Sahabgunge.		Rampore Beaulah.		Goalundo.		Berhampore.		Sarupgunge.		Gowhatty.							
		86		134		49		90		177		87		287		110		331		94		471		90		591		120	
		From Allahabad ...	Height over mean sea-level.	From Allahabad ...	Height over mean sea-level.	From Mirzapur ...	Height over mean sea-level.	From Benares ...	Height over mean sea-level.	From Buxar ...	Height over mean sea-level.	From Benares ...	Height over mean sea-level.	From Dinapur ...	Height over mean sea-level.	From Benares ...	Height over mean sea-level.	From Monghyr ...	Height over mean sea-level.	From Benares ...	Height over mean sea-level.	From Sahabgunge ...	Height over mean sea-level.	From Rampore Beaulah ...	Height over mean sea-level.	From Benares ...	Height over mean sea-level.	From Rampore Beaulah ...	Height over mean sea-level.
1st	...	21'08	218'50	20'50	217'30	21'50	199'55	27'50	161'73	23'67	125'53	24'42	92'42	25'83	67'83	22'00	30'94	30'03	63'82	30'29	34'59	27'80	174'66						
2nd	...	20'17	226'39	18'10	215'30	19'83	188'88	27'10	161'33	23'00	124'85	23'92	91'92	25'38	67'38	22'04	31'02	29'83	63'57	30'25	34'55	28'00	176'76						
3rd	...	19'42	225'64	17'00	213'80	18'58	184'88	26'30	161'03	22'67	124'52	23'50	91'50	25'00	67'01	22'25	31'19	29'54	63'24	30'17	34'47	28'21	176'06						
4th	...	19'22	225'47	16'50	213'51	17'59	186'55	26'15	160'34	22'17	124'02	23'92	90'92	24'67	66'67	22'25	31'19	29'25	61'00	29'06	31'21	28'50	177'26						
5th	...	19'23	225'47	16'25	213'05	16'83	189'88	25'25	159'48	21'17	123'02	22'50	90'50	24'11	66'11	22'25	31'19	28'58	62'62	29'79	31'09	28'80	177'36						
6th	...	18'67	224'83	16'00	212'80	16'42	185'47	24'40	158'63	19'67	121'51	21'75	89'75	23'92	65'92	22'43	31'27	28'54	61'33	29'41	30'72	28'60	177'36						
7th	...	18'25	224'47	15'51	212'71	16'09	185'05	23'60	157'83	18'75	120'60	20'55	88'55	23'8	65'8	22'33	31'27	28'25	61'00	29'08	31'38	28'50	177'06						
8th	...	17'69	224'14	15'53	212'63	15'25	184'39	23'00	157'23	18'00	119'85	20'00	88'00	22'50	64'51	22'08	31'02	27'67	61'41	28'67	32'97	28'20	176'06						
9th	...	17'39	223'57	15'36	212'46	14'54	183'65	22'25	156'48	17'34	119'18	19'25	87'25	21'88	63'88	21'92	30'86	27'09	60'74	27'09	32'65	27'40	175'16						
10th	...	16'73	222'57	15'30	212'30	13'54	182'65	21'60	155'81	17'00	118'85	18'54	86'58	21'01	63'60	21'92	30'61	26'17	59'91	27'09	32'22	27'20	175'06						
11th	...	16'17	222'59	14'25	211'05	13'17	182'22	21'10	155'33	16'42	118'27	18'00	86'00	20'33	62'33	21'33	30'47	25'25	58'99	27'09	31'72	26'70	175'06						
12th	...	15'07	221'59	13'66	210'46	12'42	181'47	16'83	155'08	16'04	117'93	17'42	85'42	19'67	61'67	21'01	29'91	24'25	57'99	27'00	31'39	26'40	175'16						
13th	...	15'00	221'22	13'00	209'81	12'08	181'13	21'30	154'33	15'43	117'68	17'00	85'00	19'08	61'03	20'75	29'69	24'23	57'67	26'46	30'76	26'00	174'66						
14th	...	15'00	221'22	13'00	209'80	11'75	180'80	19'94	154'13	15'42	117'27	16'54	84'50	18'08	60'50	20'58	29'52	24'50	56'54	26'50	30'26	25'50	174'26						
15th	...	14'53	221'05	13'06	209'83	12'17	181'22	19'90	154'13	15'42	117'27	16'54	84'50	18'08	60'48	20'42	29'30	24'42	56'42	26'42	29'76	25'00	173'76						
16th	...	14'53	221'05	13'06	209'83	12'17	181'22	19'90	154'13	15'42	117'27	16'54	84'50	18'08	60'48	20'42	29'30	24'42	56'42	26'42	29'76	25'00	173'76						
17th	...	14'53	221'05	13'06	209'83	12'17	181'22	19'90	154'13	15'42	117'27	16'54	84'50	18'08	60'48	20'42	29'30	24'42	56'42	26'42	29'76	25'00	173'76						
18th	...	14'53	221'05	13'06	209'83	12'17	181'22	19'90	154'13	15'42	117'27	16'54	84'50	18'08	60'48	20'42	29'30	24'42	56'42	26'42	29'76	25'00	173'76						
19th	...	14'53	221'05	13'06	209'83	12'17	181'22	19'90	154'13	15'42	117'27	16'54	84'50	18'08	60'48	20'42	29'30	24'42	56'42	26'42	29'76	25'00	173'76						
20th	...	14'53	221'05	13'06	209'83	12'17	181'22	19'90	154'13	15'42	117'27	16'54	84'50	18'08	60'48	20'42	29'30	24'42	56'42	26'42	29'76	25'00	173'76						
21st	...	14'53	221'05	13'06	209'83	12'17	181'22	19'90	154'13	15'42	117'27	16'54	84'50	18'08	60'48	20'42	29'30	24'42	56'42	26'42	29'76	25'00	173'76						
22nd	...	14'53	221'05	13'06	209'83	12'17	181'22	19'90	154'13	15'42	117'27	16'54	84'50	18'08	60'48	20'42	29'30	24'42	56'42	26'42	29'76	25'00	173'76						
23rd	...	14'53	221'05	13'06	209'83	12'17	181'22	19'90	154'13	15'42	117'27	16'54	84'50	18'08	60'48	20'42	29'30	24'42	56'42	26'42	29'76	25'00	173'76						
24th	...	14'53	221'05	13'06	209'83	12'17	181'22	19'90	154'13	15'42	117'27	16'54	84'50	18'08	60'48	20'42	29'30	24'42	56'42	26'42	29'76	25'00	173'76						
25th	...	14'53	221'05	13'06	209'83	12'17	181'22	19'90	154'13	15'42	117'27	16'54	84'50	18'08	60'48	20'42	29'30	24'42	56'42	26'42	29'76	25'00	173'76						
26th	...	14'53	221'05	13'06	209'83	12'17	181'22	19'90	154'13	15'42	117'27	16'54	84'50	18'08	60'48	20'42	29'30	24'42	56'42	26'42	29'76	25'00	173'76						
27th	...	14'53	221'05	13'06	209'83	12'17	181'22	19'90	154'13	15'42	117'27	16'54	84'50	18'08	60'48	20'42	29'30	24'42	56'42	26'42	29'76	25'00	173'76						
28th	...	14'53	221'05	13'06	209'83	12'17	181'22	19'90	154'13	15'42	117'27	16'54	84'50	18'08	60'48	20'42	29'30	24'42	56'42	26'42	29'76	25'00	173'76						
29th	...	14'53	221'05	13'06	209'83	12'17	181'22	19'90	154'13	15'42	117'27	16'54	84'50	18'08	60'48	20'42	29'30	24'42	56'42	26'42	29'76	25'00	173'76						
30th	...	14'53	221'05	13'06	209'83	12'17	181'22	19'90	154'13	15'42	117'27	16'54	84'50	18'08	60'48	20'42	29'30	24'42	56'42	26'42	29'76	25'00	173'76						

CALCUTTA,
The 23rd December 1890.G. A. G. SHAW, E.
Under-Secretary to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.
SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing Quantities of Goods carried during the month of October 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
416	1. Grain ...	5,993	11	6,004	6,70,664	6,004	6,70,664	* For details, see next page.
.....	2. Cotton ...	.....	.....	.....	.....	.....	.....
24	3. Oilseeds ...	432	.....	432	47,600	432	47,600	
345	4. Salt ...	639	6,033	6,672	6,18,853	6,672	6,18,853	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
6	6. Metal ...	.....	40	40	4,950	40	4,950	
105	7. Building materials ...	3,055	105	3,160	54,159	3,160	54,159	
3,414	8. Miscellaneous* ...	36,766	2,288	39,054	32,41,404	39,054	32,41,404	
549	9. Fuel ...	13,773	1,927	15,700	1,13,553	15,700	1,13,553	
.....	10. Timber ...	.....	.....	.....	.....	.....	.....
.....	11. Bamboos ...	.....	.....	.....	.....	.....	.....
4,859	12. Total ...	60,658	10,404	71,062	47,51,188	71,062	47,51,188	* For details, see next page.
3,738 3 rafts.	13. Total of same month last year.	{ 39,677 & 999 c. ft.	{ 8,581	{ 48,258 999 c. ft.	{ 42,45,641	{ 48,258 999 c. ft.	{ 42,45,641	
		Up.	Down.	Total.				
14. Total number of boats plying cargo No.		4,254	605	4,859	Total tollage of month—			Rs. A. P.
14a. Empty ...		1,931	627	2,558	24+25+26 ...			37,511 13 3
15. Total number of boats plying passenger No.		601	14	615	Total tollage of same month last year ...			29,313 4 3
16. Total registered tonnage, cargo Tons		141,626	26,582	168,208				
17. Total registered tonnage, passenger Tons		1,028	85	1,113				
18. Ton-mileage ...		1,255,665	265,820	1,521,485				Rs. A. P.
19. Estimated value of cargo Rs.		38,62,540	8,88,648	47,51,188	1. Balance not recovered on the 1st of the month ...			971 2 6
20. Number of passengers No.		2,238	69	2,307	2. Tollage per month ...			37,511 13 3
21. Rafts, bamboos C. ft.		.....	.....	.....	3. Total ...			38,482 15 9
22. Do., bullahs ..		.....	.....	.....	4. Amount paid into treasury during the month ...			37,232 9 3
23. Estimated value of rafts Rs.		.....	.....	.....	5. Balance due at the end of the month ...			1,250 6 6
24. Tollage on boats ..		30,978-1-9	6,533-11-6	37,511-13-3				
25. Compounded tollage on boats Rs.		.....	.....	.....	
26. Tollage on rafts ..		.....	.....	.....
27. Total tollage on boats per ton-mile Rs.		.....	.....	0-0-4-73				
28. Total tollage on rafts per 100 cubic feet Rs.		.....	.....	.....	

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).
CALCUTTA AND EASTERN CANALS.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
1,366	(a) Jute ...	31,085	7	31,092	21,76,400	31,092	21,76,400	
36	(b) Jaggery ...	335	.....	335	39,844	335	39,844	
9	(c) Sugar ...	55	.....	55	13,950	55	13,950	
5	(d) Tobacco ...	25	14	39	7,700	39	7,700	
928	(e) Fish ...	151	2	153	42,790	153	42,790	
27	(f) Hides ...	69	.....	69	15,550	69	15,550	
81	(g) Poultry ...	20	.....	20	12,852	20	12,852	
49	(h) Hay and straw ...	369	.....	369	7,746	369	7,746	
136	(j) Oil ...	.....	1,853	1,853	2,59,500	1,853	2,59,500	
45	(k) Earthenware ...	80	1	81	1,133	81	1,133	
732	(m) Other miscella- neous ...	4,577	411	4,988	6,63,939	4,988	6,63,939	
3,414	Total Miscellaneous...	36,766	2,288	39,054	32,41,404	39,054	32,41,404	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.
SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing Quantities of Goods carried during the month of October 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupees.	Tons.	
1,565	1. Grain ...	4,519	.....	4,519	4,47,240	4,519	4,47,240
6	2. Cotton ...	45	.....	45	22,860	45	22,860
6	3. Oilseeds ...	124	.....	124	12,162	124	12,162
68	4. Salt ...	646	292	938	87,019	938	87,019
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
.....	6. Metal ...	.....	.....	.....	.....	.....	.....
751	7. Building materials ...	8,483	.....	8,483	30,882	8,483	30,882
1,351	8. Miscellaneous* ...	6,527	67	6,594	7,11,750	6,594	7,11,750
216	9. Fuel ...	2,674	.....	2,674	20,190	2,674	20,190
12 rafts.	10. Timber ...	25,313 c. ft.	675 c. ft.	25,988 c. ft.	64,970	25,988 c. ft.	64,970
2 "	11. Bamboos ...	78 "	.....	78 "	10	78 "	10
3,963 & 14 rafts.	12. Total ...	{ 23,018 & 25,391 c. ft.	{ 359 & 675 c. ft.	{ 23,377 & 26,066 c. ft.	{ 13,97,083	{ 23,377 & 26,066 c. ft.	{ 13,97,083
3,179 & 8 rafts.	13. Total of same month last year ...	{ 15,571 & 10,499 c. ft.	{ 261 & 624 c. ft.	{ 15,832 & 11,123 c. ft.	{ 10,56,443	{ 15,832 & 11,123 c. ft.	{ 10,56,443
14. Total number of boats plying cargo ... No.		3,914	49	3,963	Total tollage of month— 24+25+26 ...		Rs. A. P. 9,232 9 9
14a. Empty " "		1,163	302	1,465	Total tollage of same month last year ...		7,349 14 3
15. Total number of boats plying passenger ... No.		411	4	415	<i>Memorandum of Tollage.</i>		
16. Total registered tonnage, cargo ... Tons		58,203	2,463	60,666			
17. Total registered tonnage, passenger ... Tons		846	14	860			
18. Ton-mileage ...		462,593	39,408	502,001			
19. Estimated value of cargo Rs.		12,96,922	35,181	13,32,103			
20. Number of passengers No.		9,149	19	9,168			
21. Rafts, bamboos C. ft.		78	.....	78			
22. Do., bullahs "		25,313	675	25,988			
23. Estimated value of rafts Rs.		63,243	1,737	64,980			
24. Tollage on boats "		8,577-2-3	607-2-6	9,184-4-9			
25. Compounded tollage on boats ... Rs.		.....	.....	.....
26. Tollage on rafts "		46-1-0	2-4-0	48-5-0			
27. Total tollage on boats*per ton-mile Rs.		.....	.....	0-0-3-51			
28. Total tollage on rafts per 100 cubic feet ... Rs.		.....	.....	0-2-11			
					1. Balance not recovered on the 1st of the month ...		366 15 0
					2. Tollage per month ...		9,232 9 9
					3. Total ...		9,599 8 9
					4. Amount paid into treasury during the month ...		9,311 3 3
					5. Balance due at the end of the month ...		288 5 6

* For details, see next page.

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).
TOLLY'S NULLAH.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
84	(a) Jute ...	399	.....	399	27,925	399	27,925	
76	(b) Jaggery ...	524	9	533	63,431	533	63,431	
.....	(c) Sugar ...	.....	.....	.....	.....	.....	.....
15	(d) Tobacco ...	158	.....	158	30,975	158	30,975	
112	(e) Fish ...	8	1	9	2,801	9	2,801	
.....	(f) Hides ...	.....	.....	.....	.....	.....	.....
16	(g) Poultry ...	7	.....	7	1,548	7	1,548	
511	(h) Hay and straw...	776	.....	776	16,294	776	16,294	
72	(j) Oil ...	815	32	847	1,18,625	847	1,18,625	
115	(k) Earthenware ...	97	6	103	1,435	103	1,435	
350	(m) Other miscellane- ous.	3,743	19	3,762	4,48,716	3,762	4,48,716	
1,351	Total Miscellaneous...	6,527	67	6,594	7,11,750	6,594	7,11,750	

ABSTRACT FOR THE MONTH OF OCTOBER 1890, AS COMPARED WITH THE
CORRESPONDING MONTH OF THE PREVIOUS YEAR.

	TRAFFIC, 1890-91.				TRAFFIC, 1889-90.			
	During the month.		To end of the month.		During the month.		To end of the month.	
	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.
Calcutta and Eastern Canals ...	37,511	13 3	1,57,444	0 6	29,313	4 3	1,56,610	8 9
Tolly's Nullah ...	9,232	9 9	57,375	7 9	7,349	14 3	48,926	15 0
Total ...	46,744	7 0	2,14,819	8 3	36,663	2 6	2,05,537	7 9

CALCUTTA,
The 22nd December 1890.

G. A. G. SHAWE,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 20th December 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 20TH DECEMBER 1890.			WEEK ENDING SATURDAY, THE 21ST DECEMBER 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ...	1,479	1,12,855	1,555	1,615	1,23,283	1,681
Jute ...	299	1,60,159	2,932	343	2,02,850	3,677
Firewood ...	158	1,06,800	1,572	128	86,850	1,269
Other articles ...	1,055	2,36,695	3,814	996	2,17,070	3,554
Total ...	2,991	6,16,509	9,873	3,082	6,29,853	10,002

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 13th December 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	*230,707	*2,75,646 8 0	23,51,971 20	6,22,827 8 0	16,337 7 0	9,14,811 7 0	71,004½	95,131½	166,845½
Or per mile of railway ...	.....	180 11 1	.....	408 4 0	10 11 4	599 10 1	.....	.....	.....
For previous 23 weeks of half-year ...	5,242,668	57,42,226 14 0	4,36,50,788 30	1,05,87,656 2 0	3,71,606 12 5	1,67,01,489 12 5	1,510,671½	1,768,016	3,278,687½
Total for 24 weeks ...	5,473,375	60,17,873 6 0	4,60,02,760 10	1,12,10,483 10 0	3,87,944 3 5	1,76,16,301 3 5	1,582,393	1,891,197½	3,443,533½
COMPARISON.									
Total for corresponding week of previous year ...	233,323	3,07,230 13 8	24,33,915 20	6,47,770 1 0	10,212 9 2	9,44,797 6 3	67,449	89,680	157,129
Per mile of railway corresponding week of previous year ...	.....	201 6 4	.....	424 10 2	6 11 1	619 5 5	.....	.....	.....
Total to corresponding date of previous year ...	5,786,816	65,08,665 7 7	5,11,09,200 0	1,16,54,085 10 3	3,75,764 3 2	1,85,38,515 5 0	1,589,636	1,941,031	3,521,667

* The decrease in coaching traffic is due to figures for the corresponding period of 1889 having included receipts from troop extra and mule special trains.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 14TH DECEMBER 1889.			RECEIPTS FOR WEEK ENDING 13TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 14TH DECEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 13TH DECEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
1,525½	Rs. 9,44,797	Rs. 619	1,525½	Rs. 9,14,811	Rs. 600	1,525½	Rs. 3,05,65,267	Rs. 542	1,525½	Rs. 2,80,48,691	Rs. 508	Rs.	Rs. 19,16,576

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 13th December 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	10,406	5,279 0 0	50,731 10	3,518 0 0	88 7 0	8,835 7 0	1,698	696	2,394
Or per mile of railway ...	182	92 4 8	887 0	61 8 0	0 10 9	154 7 5	.....	.....	.....
For previous 23 weeks of half-year ...	303,245	1,75,028 14 0	8,25,912 30	54,453 15 0	765 13 0	2,30,848 10 0	33,030½	12,863	45,893½
Total for 24 weeks ...	313,651	1,80,907 14 0	8,76,644 0	57,971 15 0	804 4 0	2,39,684 1 0	34,728½	13,559	48,287½
COMPARISON.									
Total for corresponding week of previous year ...	10,969½	5,911 15 10	39,902 30	2,794 1 0	42 3 0	8,748 3 10	1,901	1,004	2,905
Per mile of railway corresponding week of previous year ...	192	103 5 8	697 30	48 13 7	0 11 10	152 15 1	.....	.....	.....
Total to corresponding date of previous year ...	329,838	1,83,882 11 8	10,77,467 30	55,360 4 0	1,644 14 3	2,40,837 13 11	37,941	17,925	55,866

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 14TH DECEMBER 1889.			RECEIPTS FOR WEEK ENDING 13TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 14TH DECEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 13TH DECEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
57½	Rs. 5,743	Rs. 163	57½	Rs. 8,835	Rs. 154	57½	Rs. 3,54,884	Rs. 163	57½	Rs. 3,68,643	Rs. 174	Rs. 13,759	Rs.

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 18th December 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	16,904	4,185 7 0	7,451 10	305 5 0	7 0 0	4,497 12 0	877	91	968
Or per mile of railway ...	.....	188 1 9	.....	13 11 7	0 5 0	202 2 4	.....	.....	.....
For previous 23 weeks of half-year ...	380,261	94,282 14 0	1,69,748 10	6,334 12 0	136 1 0	1,00,773 11 0	20,738	1,196	21,934
Total for 24 weeks ...	397,165	98,465 5 0	1,77,199 20	6,660 1 0	143 1 0	1,01,271 7 0	21,615	1,287	22,902
COMPARISON.									
Total for corresponding week of previous year ...	13,776½	3,858 9 0	25,464 10	335 9 0	8 0 6	4,252 2 6	903	135	1,038
Per mile of railway corresponding week of previous year ...	.....	173 5 9	.....	17 5 3	0 5 9	191 1 9	.....	.....	.....
Total to corresponding date of previous year ...	421,809½	1,04,369 14 1	2,87,649 20	6,891 8 0	151 4 9	1,11,412 10 10	21,076	2,135	24,111

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 14TH DECEMBER 1889.			RECEIPTS FOR WEEK ENDING 13TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 14TH DECEMBER 1889.		TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 13TH DECEMBER 1890.		Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Mean mileage worked.	Total receipts.	Per mile worked.	
	Rs.	Rs.		Rs.	Rs.		Rs.		Rs.	Rs.	Rs.
22½	4,252	191	22½	4,498	202	22½	1,94,050	22½	1,90,322	231	.....
											5,728

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K.-D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 6th December 1890, on 763 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	188,556	81,690 0 0	5,19,095 0	1,39,990 0 0	16,580 0 0	2,38,260 0 0	22,875	35,562	58,437
Or per mile of railway ...	247	107 0 0	680 0	183 0 0	22 0 0	292 0 0	.....	.....	.....
For previous 23 weeks of half-year ...	3,095,838	13,47,381 0 0	1,34,51,104 0	33,59,580 0 0	3,83,600 0 0	*51,39,561 0 0	488,626	736,070	1,224,696
Total for 23 weeks ...	3,284,394	14,69,071 0 0	1,39,70,199 0	34,99,570 0 0	4,00,180 0 0	53,68,821 0 0	511,501	771,632	1,283,133
COMPARISON.									
Total for corresponding week of previous year ...	201,316	79,497 0 0	7,52,677 0	1,96,664 0 0	19,190 0 0	2,95,351 0 0	22,851	38,508	61,359
Per mile of railway corresponding period of previous year ...	269	106 0 0	1,008 0	263 0 0	22 0 0	371 0 0	.....	.....	.....
Total to corresponding date of previous year ...	3,337,795	15,08,504 0 0	1,45,77,944 0	36,58,178 0 0	4,16,691 0 0	55,83,573 0 0	519,319	752,092	1,271,411

* Audited up to week ending 23th October 1890.

† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 7TH DECEMBER 1889.			RECEIPTS FOR WEEK ENDING 6TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 7TH DECEMBER 1889.		TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 6TH DECEMBER 1890.		Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Mean mileage worked.	Total receipts.	Per mile worked.	
	Rs.	Rs.		Rs.	Rs.		Rs.		Rs.	Rs.	Rs.
747	2,95,351	295	763	2,38,260	312	717	77,18,816	299	*77,51,479	283	32,664

* Audited up to week ending 23th October 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 6th December 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	32,404	12,460 0 0	33,592 0	2,630 0 0	130 0 0	15,220 0 0	3,660	2,020	5,620
Or per mile of railway ...	259	100 0 0	269 0	21 0 0	1 0 0	122 0 0	.....	.....	.....
For previous 23 weeks of half-year ...	529,849	1,90,522 0 0	8,95,874 0	73,546 0 0	5,275 0 0	*2,69,313 0 0	85,067	33,475	119,142
Total for 23 weeks ...	562,253	2,02,982 0 0	9,29,466 0	76,176 0 0	5,405 0 0	2,84,563 0 0	89,367	35,495	124,762
COMPARISON.									
Total for corresponding week of previous year ...	35,742	11,296 0 0	40,567 0	3,433 0 0	406 0 0	15,135 0 0	3,472	2,200	5,672
Per mile of railway corresponding period of previous year ...	289	90 0 0	325 0	28 0 0	3 0 0	121 0 0	.....	.....	.....
Total to corresponding date of previous year ...	641,759	2,19,491 0 0	13,03,405 0	1,19,025 0 0	5,194 0 0	5,44,310 0 0	81,400	55,488	136,888

* Audited up to week ending 25th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 7TH DECEMBER 1889.			RECEIPTS FOR WEEK ENDING 6TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 7TH DECEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 6TH DECEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	15,135	121	125	15,220	122	125	5,24,157	116	125	*4,50,059	100	.....	74,098

* Audited up to week ending 25th October 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 6th December 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	17,398	6,460 0 0	31,010 0	3,210 0 0	170 0 0	9,840 0 0	2,415	1,033	3,448
Or per mile of railway ...	202	75 0 0	361 0	37 0 0	2 0 0	114 0 0	.....	.....	.....
For previous 23 weeks of half-year ...	333,830	1,10,579 0 0	4,84,368 0	45,402 0 0	5,506 0 0	*1,61,487 0 0	52,725	16,888	69,613
Total for 23 weeks ...	351,228	1,17,039 0 0	5,15,878 0	48,612 0 0	5,676 0 0	1,71,327 0 0	55,140	17,021	72,061
COMPARISON.									
Total for corresponding week of previous year ...	19,938	6,510 0	31,075 0	5,248 0 0	162 0 0	11,920 0 0	2,536	2,035	4,591
Per mile of railway corresponding period of previous year ...	232	76 0 0	601 0	61 0 0	2 0 0	139 0 0	.....	.....	.....
Total to corresponding date of previous year ...	358,655	1,15,161 0 0	6,15,684 0	53,637 0 0	4,784 0 0	1,72,582 0 0	57,312	23,298	80,616

* Audited up to week ending 25th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 7TH DECEMBER 1889.			RECEIPTS FOR WEEK ENDING 6TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 7TH DECEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 6TH DECEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	11,920	139	86	9,840	114	86	2,40,861	80	86	*2,53,188	82	6,327	.....

* Audited up to week ending 25th October 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 6th December 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	2,950	Rs. A. P. 1,020 0 0	Mds. S. 11,827 0	Rs. A. P. 700 0 0	Rs. A. P. 30 0 0	Rs. A. P. 1,750 0 0	691	335	926
Or per mile of railway ...	108	57 0 0	434 0	26 0 0	1 0 0	64 0 0	.....	.....	.....
For previous 23 weeks of half-year ...	64,692	23,470 0 0	2,25,393 0	12,075 0 0	383 0 0	*35,928 0 0	14,980	8,243	23,223
Total for 23 weeks ...	67,642	24,490 0 0	2,37,818 0	12,775 0 0	413 0 0	37,078 0 0	15,671	8,578	24,149
COMPARISON.									
Total for corresponding week of previous year ...	3,566	1,290 0 0	9,043 0	694 0 0	68 0 0	2,052 0 0	586	340	926
Per mile of railway corresponding period of previous year ...	131	47 0 0	332 0	25 0 0	3 0 0	75 0 0	.....	.....	.....
Total to corresponding date of previous year ...	71,822	26,211 0 0	2,08,187 0	13,860 0 0	1,858 0 0	41,929 0 0	13,328	8,102	21,430

* Audited up to week ending 25th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 7TH DECEMBER 1889.			RECEIPTS FOR WEEK ENDING 6TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 7TH DECEMBER 1889.		TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 6TH DECEMBER 1890.		Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Mean mileage worked.	Total receipts.	Per mile worked.	Per mile worked.
27½	Rs. 2,052	Rs. 75	27½	Rs. 1,750	Rs. 64	27½	Rs. 67,508	27½	Rs. *63,600	Rs. 65	Rs.
											Rs. 3,908

* Audited up to week ending 25th October 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 6th December 1890, on 699 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	94,490	Rs. 39,050	Mds. 3,98,090	Rs. 58,880	Rs. 7,570	Rs. 1,05,500	12,684	15,655	28,339
Or per mile of railway ...	135'16	55'87	570'37	84'23	10'83	150'93	.....	.....	.....
For previous 21 weeks of half-year ...	1,690,720	6,85,389	68,67,744	7,55,000	1,52,697	15,92,036	272,300	263,587	535,887
Total for 22 weeks ...	1,785,210	7,24,339	62,66,434	8,13,880	1,60,267	16,08,480	284,984	279,242	564,226
COMPARISON.									
Total for corresponding week of previous year, 649 miles open...	78,112	35,975	2,99,750	42,160	7,829	85,913	11,271	14,431	25,702
Per mile of corresponding week of previous year...	120'36	55'43	461'86	64'80	12'06	132'38	.....	.....	.....
Total to corresponding date of previous year ...	1,837,898	7,07,030	61,76,990	7,18,088	1,85,781	16,04,899	200,710	288,070	540,380

* Steam-boat earnings for the week Rs. 6,706
Ditto ditto to date .. 1,26,740* Ajodhya bridge earnings for the week .. 560
Ditto ditto to date .. 9,790

Train mileage figures:—
a Bengal & N.W. Section. Tirhoot Section.
Coaching ... Rs. 6,613 Rs. 6,671
Goods 6,968 6,657
Total 13,581 13,328

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

RECEIPTS FOR WEEK ENDING 6TH DECEMBER 1890			RECEIPTS FOR WEEK ENDING 7TH DECEMBER 1889			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 6TH DECEMBER 1890		TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 7TH DECEMBER 1889.		Total increase in 1890-91	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Mean mileage worked.	Total receipts.	Per mile worked.	Per mile worked.
699	Rs. 1,05,500	Rs. 150'93	649	Rs. 89,913	Rs. 132'38	676	Rs. 20,22,165	649	Rs. 20,20,552	Rs. 125'55	Rs. 1,01,614
											Rs.
N.B.—Earnings of B. and N.W. Section. Week ended 6-12-89. Week ended 7-12-89.											
			Rs.			Rs.			Earnings of Tirhoot Section. Week ended 6-12-89. Week ended 7-12-89.		
			Rs.			Rs.			Rs.		
Coaching			16,580			19,421			22,070		
Goods			20,810			12,701			29,408		
Other earnings			5,870			4,812			3,700		
Total			43,260			36,934			55,178		



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, DECEMBER 31, 1890.

OFFICIAL PAPERS.

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THE following report is published for general information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

The 29th December 1890.

Secretary to the Government of Bengal.

METEOROLOGICAL SUMMARY OF THE MONSOON PERIOD OF 1890.

THE following statement is intended to give a very brief history of the more important features which have characterised the south-west monsoon period and the preceding months of 1890.

During January weather conditions were for the greater part of the month of the normal north-east monsoon character, and up till the 24th no disturbances of any importance entered Bengal. On this date, however, a well-formed barometric depression, which had originated in North-Western India on the 22nd, commenced to pass through the province, travelling through it on the 24th and 25th, and reaching Burma on the 26th. This storm brought rather heavy rain, and in fact practically the whole rainfall of the month was due to it. January was therefore decidedly more free from storms than is usually the case, and for the month rainfall was decidedly deficient in Chutia Nagpur, South Behar, Orissa, and North Behar while it was almost normal in amount in South-West Bengal and North Bengal, and almost twice as great as the normal in East Bengal. Pressure also during the month was rather largely in defect of the normal, the defect usually ranging from 0.06 inch to 0.08 inch; the defect being largest in West and Central Bengal, and smallest in the south of Orissa. Temperature was, on the other hand, in excess of the normal, the

excess averaging about 1.6° ; humidity was also larger than usual, and cloud proportion rather smaller.

In February also there was a singular absence of cold-weather storms, and only two slight depressions affected the province, neither of which was sufficiently influential to produce general rain. During this month therefore rainfall was confined to a few local showers of no importance. South-West Bengal, Chutia Nagpur, and North Bengal were entirely rainless, and the average fall in the other districts did not amount to more than a few hundredths of an inch. Pressure also in this month was in defect in all districts by about 0.02 inch. Temperature for the first half of the month was either below or about normal, but during the second half it became in excess of the normal by about 3° to 4° . Cloud proportion continued below the usual amount in February, but humidity was about normal.

In March again there were no storms of the usual cold-weather type, but owing to the comparatively early setting in of hot-weather conditions, a few local storms of the class called nor'westers commenced as early as 4th March, and they continued to occur locally up to about the middle of the month; but they were, as a general rule, decidedly more feeble than usual. Owing, again, to the comparative absence of storms, rainfall was largely in defect of the normal in all districts except Chutia Nagpur and Orissa, the defects being particularly large in North Bengal, North Behar and South-West Bengal; while, on the other hand, Orissa received a fall rather more than twice as large as usual. Barometric pressure continued in March rather largely in defect, the usual defect equalling 0.04 inch to 0.07 inch. In March also the normal rapid increase in temperature was even more pronounced than usual, and the mean temperature was above the normal in all districts by from about half to two degrees. Notwithstanding the defective rainfall humidity was in this month about normal, while cloud proportion was in excess.

In April conditions were of about average hot-weather character, and the mean temperature for the month was almost absolutely normal. During the first half of the month only a few local storms were reported, and these were principally confined to East and North Bengal, but during the third and fourth weeks two small barometric depressions appeared over the province, and for about ten days from the 17th the weather was generally rather unsettled in all districts except Behar and Chutia Nagpur, while in East and North Bengal severe thunderstorms with heavy rain were of almost daily occurrence, and one of them in the neighbourhood of Mymensingh appears to have acquired the violence of a tornado. Rainfall for April was thus considerably in excess of the normal in North and East Bengal, and rather below it in South Behar and South-West Bengal: it was in large defect in North Behar and Orissa, and in Chutia Nagpur rainfall was practically absent. Pressure during the month was slightly below the normal in Lower Bengal, the difference being about a hundredth of an inch in Orissa, South-West Bengal and South Behar, but elsewhere there was a small excess of about corresponding amount.

In the early part of May there was a short period of intensely hot weather in Bengal, which was accompanied by abnormally low pressure and unusually light winds, and more or less complete absence of rainfall in all districts except East and North Bengal. This lasted up to about the 9th or 10th, during which period a small cyclonic storm had been forming in the Bay of Bengal, probably not far from the Andamans, which afterwards moved in a north-north-easterly direction, and on the 7th passed into Burma across the coast between Diamond Island and Akyab, where it broke up on the 8th. The wave of moist winds and disturbed conditions after the breaking up of the storm appeared to drift northwards, and from about the 11th or 12th rainfall became fairly general though by no means heavy over practically the whole province of Bengal. The rainfall for this month was in most districts a little below the normal, the only district in which the defect was considerable being Chutia Nagpur, while on the other hand the falls in East Bengal were slightly above the average. Owing probably to the effect of the cyclonic storm above noted, the general pressure for the month in Bengal was distinctly below the normal, the defect in many cases ranging from two to five hundredths of an inch. The variations of temperature during the month were exceptionally large, and in the early part temperatures of from 4° to nearly 10° in excess were registered, but with the setting in of rainfall

this excess disappeared, and for the whole month, though temperature was higher than usual, the excess was not larger than about one degree.

During the first five months of the year or, in what may be termed, the pre-monsoon months, it will be seen that conditions were somewhat abnormal. Pressure had been in distinct defect in each month, the defect at some stations exceeding a twentieth of an inch in January and March. Temperature also had generally been in excess of the normal, the only exception being in April, when it was practically normal. Rainfall also on the whole was very considerably below the normal in most districts. East Bengal had received a fall in the five months, about 6 per cent. below the normal only, but in Orissa and North Behar the defect was from 25 to 30 per cent., in South-West Bengal 40 per cent., in South Behar 50 per cent., and in North Behar and Chutia Nagpur about 60 per cent. During these five months also there were comparatively few storms; the cold-weather or north-east monsoon storms were indeed almost absent, the hot-weather local storms were also not very numerous, and most of them were not very influential, and the only storm of any importance at all was the cyclonic storm of May which passed over Burma.

In the south of the Bay of Bengal the first advance of the south-west monsoon current appeared to take place in the last day or two of April. This advance progressed rather farther up the Bay than usual, and gave rise to the small storm just referred to. About the second week in May again another advance of the monsoon current appears to have been felt in the south of the Bay, and fairly strong winds continued to be reported at the Ceylon stations up to the close of the month. These facts rather pointed to the probable early establishment of the monsoon current, and therefore of the regular rains over Bengal; but though moderately heavy general rain continued to fall in North and East Bengal from early in June, yet in other districts the commencement of the heavy, almost daily, rainfall which characterises the south west monsoon rains did not take place till about the 18th June. In some of the southern districts fairly general rain had occurred before this date on the 5th and 6th and the 9th and 10th of June, but these falls were again followed by periods of fine weather, and from the 13th and 17th of June only scattered showers of rain were reported. The large advance of the monsoon current which brought about the heavy general rainfall of the 18th and following dates was caused by the advance of a feeble barometric depression which formed in the north-west angle of the Bay on the 17th, after which it advanced into Chutia Nagpur, filling up there on the 20th; on the 22nd also a depression formed over the east of the province, and subsequently moved in a westerly direction, giving very heavy rainfall in its advance—several stations reporting from 5 to 10 inches. Both these depressions caused a large inflow of moist winds over the province, and the wind velocities for June were at the coast stations generally higher than the normal, indicating probably a stronger monsoon than usual. The rainfall for the month was however largely in excess of the normal in all districts except East Bengal, where there was a slight defect. The excess falls usually ranged from twenty-five to forty per cent. in excess of the normal, but in South Behar the fall was nearly twice as large as usual.

The mean pressure for June was very nearly normal, the differences being generally under a hundredth of an inch. Temperature was in distinct, though slight, defect of the normal, the defect being generally under a degree.

The strength of the monsoon current blowing in July again continued rather largely above the normal as judged by the wind velocities at the coast stations, and, as will be seen subsequently, rainfall was also in considerable excess. There was also during the month a comparative and indeed an almost complete absence of barometric depressions or cyclonic storms such as usually occur during the rainy season. Only one small storm deserves mention, and this formed quite at the end of June in the north-west of the Bay, and moving in a westerly direction crossed the coast near False Point, early in July, but it only gave moderately strong winds, and brought up comparatively little rainfall. The second was a very unimportant whirl which formed in the north-west angle of the Bay on the 19th, and then passed through Chutia Nagpur to the North-West Provinces, where it filled up on the 24th. During this period a steady south-westerly current blew over the whole province, giving heavy rain in all districts. Indeed, the rainfall over the whole province in July was generally about twenty-five per cent. in excess of the normal,

but the variations in different districts were considerable. In Orissa, which had on the whole about a normal fall, the district of Pooree received a fall about half as large again as usual, while on the other hand the Balasore district received only about half the usual fall. South-West Bengal also received generally almost a normal fall, and included districts such as Midnapore and Howrah, where the falls were about half as much as usual, and on the other hand districts such as Burdwan and Moorshedabad, where they were from 40 to nearly 60 per cent. in excess of the normal. In East Bengal all districts received practically abundant rain, and the general fall was a fifth larger than usual. The falls in North Bengal averaged about thirty per cent. in excess of the usual amount, the excess falls being mainly determined towards the line of the hills, and in the Darjeeling district the falls were nearly twice as large as usual. In North Behar the falls were even larger, and they averaged 74 per cent. in excess, and all the districts in this division received very abundant falls. In South Behar the fall was 36 per cent. in excess of the normal, and again all the districts received abundant rain, but in the Chutia Nagpur Division, though the rainfall averaged 16 per cent. in excess, in the district of Singbhoom the fall was only two-thirds of the usual amount.

The pressure changes were rather large during July, though the means of the month were fairly normal, the pressure in East Bengal being almost the average amount, while in the other districts it was below it by amounts varying from one to four hundredths of an inch. In the case of temperature also there were rather large changes, and towards the close of the month the maximum temperatures were at many stations 8° to 10° below the normal. The monthly means of temperature were therefore below the normal, the defect being about one to one and-a-half degrees in all districts except Orissa and South-West Bengal, where it equalled about half a degree.

August also was a month of entire absence of storms of any importance, though a few very unimportant depressions or whirls formed in the early part of August in the north of the Bay. They may perhaps have had the effect of diminishing the strength of the monsoon current blowing over Bengal, for the mean wind velocities for August showed that the winds blowing from the Bay were at almost all the coast stations very largely below their normal strength. Rainfall also in this month was rather considerably below the normal in all districts except North Bengal and Behar, where there was again excessive precipitation. Indeed this tendency for the excessive rainfall to be deflected towards the northern districts of the province, that is, towards North Bengal and Behar, was a most prominent characteristic of the monsoon season of 1890. In August Orissa received about four-fifths of the usual fall, and again, as in July, the Balasore district was most largely in defect. South-West Bengal generally was about 30 per cent. in defect, and in the district of Bankoorah in particular the fall was less than a third of the usual amount. In East Bengal the defect was small only, though in Backergunge and Tipperah districts the defects were considerable. In North Bengal and Behar, on the other hand, the falls were about a third in excess of the normal, and all the districts in these divisions received an abundant fall except Pubna and Rajshahye. In Chutia Nagpur, again, the fall was only three-fourths of the normal, and in the Singbhoom district in particular the fall was only 25 per cent. of the usual amount.

The variations of pressure during August were not very large and of little practical importance, and for the whole month the means were above the normal by between two and three hundredths of an inch. As regards temperature, the monthly mean for South-West Bengal was normal, and for the other districts below the normal, the defect being under half a degree in Orissa and East Bengal, and between half and one and-a-half degrees in all the other divisions.

September was again a month in which nothing like a storm occurred in the Bay of Bengal, and during the greater part of the month only light monsoon weather prevailed. A very shallow depression did indeed form from the 13th to the 19th, remaining for the greater part of the time over Orissa, but it was not very influential in the matter of rainfall. A rather more important depression formed in the Bay off Vizagapatam on the 22nd, and gradually drifted inland between Gopalpore and Vizagapatam, moving in a north-westerly and northerly direction, and passing through Orissa into Chutia Nagpur, where it filled up on the 28th. This rather feeble depression nevertheless brought up a

very powerful wave of moisture-laden winds, and very heavy and general rain prevailed over the province during the latter part of the month. The rainfall of the first half of September was, however, much lighter and more scattered than usual, and thus the monthly rainfall was decidedly below the normal in East Bengal, Chutia Nagpur and Behar, while it was about normal in Behar. Orissa, however, through which both depressions passed, received the very heavy rainfall of nearly 70 per cent. in excess of the normal. North Bengal also received very heavy falls of rain as in the previous months, and showed a fall nearly half as large again as the normal. In the division of Orissa all the districts received very heavy falls, but in South-West Bengal, though generally there was a normal fall, Khoolna and Jessore showed rather serious defects. Practically also all the districts in East Bengal showed very seriously deficient rainfall, while all the districts in North Bengal had very heavy falls. In North Behar, Purneah received a large fall, and all other districts comparatively small falls; and in South Behar the falls were most deficient in Gya, South Bhagulpur and Monghyr districts. Finally, in Chutia Nagpur, Singbhoom, which had been in previous months recording most largely deficient falls, in September received comparatively rather larger falls, though even in this month they were below the normal amounts.

The variations of pressure during the first half of September were small and of little consequence, but during the second half they were rather large. The means for the month were below the normal by about 0.02 inch in the south of Orissa, and about 0.03 inch above it in East Bengal, but elsewhere the difference from the normal was only a few thousandths of an inch. In the case of temperature there were large variations, and during the early part of the month, when rainfall was rather deficient, temperature was in considerable excess, but with the heavy falls of rain towards the close of the month a very rapid fall of temperature set in, and it became much below the normal. For the whole month the mean temperature was nearly normal, some districts showing slight defects and others excess temperatures, but in no case did the variations exceed half a degree.

Up to the end of September weather conditions in Bengal continued to be influenced by the depression which had filled up on the 28th in Chutia Nagpur. Early in October, however, rainfall practically ceased over the province, the monsoon current became weak, and apparently commenced to retreat rapidly down the Bay. In its retreat, however, a barometric depression of rather greater importance than those in the preceding months commenced to form, and the little storm had a life history from the 8th to the 16th of October. The depression at first apparently covered a considerable part of the south of the Bay, but up till the 11th it had changed very little, when on this day the centre was probably to the east of Coconada, and was moving in a north or north-westerly direction. On the 12th the centre was close to the coast between Vizagapatam and Gopalpore, and it crossed the coast on the following morning, after which it moved northward, passing through Orissa and the adjacent parts of South-West Bengal and Chutia Nagpur. The small storm was not a severe one, but it brought up particularly heavy rain. The general rainfall in October was to a great extent due to this cause. After this the south west monsoon current again commenced to retreat down the Bay, but on the 20th a second depression began to appear in the east of the centre of the Bay. This small storm, which was only of feeble character and of very local influence, moved in a northerly direction over the Sunderbuns into East Bengal, and on the 23rd its centre was near Furreedpore, and it filled up on the following day. Except in the immediate proximity of the storm centre, the rainfall brought up was light, and it did not extend generally beyond East Bengal. After the 25th October the monsoon current again retreated, giving a few showers in Orissa, but practically by the close of October the south-west monsoon rainfall had entirely ceased, and a steady northerly wind current was setting in over the whole of the province. The dates on which the general rainfall ceased in the various meteorological divisions were as follows:—in South Behar and Chutia Nagpur about the 15th, in North Behar and North Bengal about the 17th, in South-West Bengal the 18th to the 20th, in East Bengal on the 25th, and in Orissa about the 31st.

Owing principally to the heaviness of the rainfall brought up by the first of the two feeble storms described, the rainfall in October was considerably

above the normal, the general excess averaging nearly 50 per cent. In only one division were the falls below the usual amount, and in Chutia Nagpur the defect was about 30 per cent., and all the districts in the division showed large deficiency. In Behar the falls generally were slightly heavier than usual, but in the districts making up the division there were very great anomalies. The Sonthal Pergunnahs received a fall about three times as large as usual, receiving ten inches of rain instead of about three-and-a-half; the Ohumparun and South Bhagulpur districts also received considerable excess falls; but on the other hand, the falls in Gya, Sarun, Patna and Shahabad were extremely defective. East Bengal generally received a fall of about a quarter larger than usual, but even here Chittagong was considerably in defect. In Orissa the fall was about half as large again as usual, all districts receiving an excess fall; and in South-West Bengal the general fall averaged eight inches against the normal amount of about four inches, and the excess falls in the districts of 24-Pergunnahs, Beerbhoom and Nuddea were particularly large. The Division of North Bengal, however, again showed the peculiar determination of the rain-bearing current towards this district, and it received nearly twelve and a third inches general fall as against a normal amount of about four inches and a third. In many of the districts of North Bengal in October indeed the actual falls were from three to four times the ordinary amounts.

In regard to the other meteorological elements for October pressure changes during the existence of the first small storm described were moderately large, but during the second storm they were small. For the whole month the mean pressure did not differ from the normal by more than a few thousandths of an inch. Owing apparently to the heaviness of the rainfall in October, the mean temperatures were rather largely below the normal, the defects ranging from 1.6° in Chutia Nagpur to 0.3° in North Behar.

The principal features of the monsoon season of 1890 and of the months preceding it in Bengal have therefore been—

1. Pressure was rather decidedly in defect of the normal up to the commencement of the rains.
2. Temperature was on the other hand in excess of the normal both during the north-east monsoon season and in the hot-weather season, and indeed up till practically the commencement of the rains.
3. There was an almost entire absence of cold-weather storms during the early months of the year, and the hot-weather storms were not very numerous nor were they of any particular intensity in most cases. The only storm of any importance whatever was one which occurred in front of the first advance of south-west monsoon winds in the Bay, and which afterwards struck the coast between Akyab and Diamond Island, but even this was not very intense.
4. Rainfall up to the setting in of the monsoon rains was on the whole considerably below the normal, the defects ranging from 6 per cent. of the normal in East Bengal to 50 and 60 per cent. in North Behar and Chutia Nagpur.
5. The actual monsoon rains set in a few days later than usual, the general date over the greater part of the province being about 18th June.
6. During the whole of the south-west monsoon and even during its retreat southwards down the Bay, not a single severe storm has occurred, and the only importance which any of the few whirls which were formed possessed has been due to the rainfall brought up by them. The monsoon period this year has therefore been a singularly quiet one.
7. The monsoon current appeared to be considerably in excess of its normal strength in June and July, though in August and September it was rather below it. It retreated from Bengal at about the normal period.
8. Rainfall was largely in excess of the normal in June and July, of more nearly normal amount in August and September, and again largely in excess in October.
9. The rainfall in October continued rather later than usual owing to the effect of a diffused barometric depression which advanced from the Bay over part of the province about the middle of the month.
10. There was a very singular and pronounced tendency for the heavy rainfall to concentrate itself towards the north of the province and towards the line of the hills. This tendency was particularly well marked in the districts of North Behar and to a rather smaller extent over North and South Behar. In

North Bengal the rainfall from June to October inclusive was about 63 per cent. in excess of the normal.

11. The following tables give briefly the amount and variation of the rainfall in each of the seven meteorological divisions, month by month, for the monsoon season, May to October inclusive:—

Actual Rainfall in inches.

METEOROLOGICAL DIVISIONS.	May.	June.	July.	August.	September.	October.	Year.
Orissa ...	3.84	11.05	12.05	9.28	17.21	9.00	62.43
South-West Bengal ...	4.71	14.25	12.20	8.67	9.36	8.07	57.26
East Bengal ...	9.44	16.25	19.87	14.10	7.21	6.92	73.79
North Bengal ...	6.88	23.14	18.02	18.20	19.17	12.30	97.71
North Behar ...	3.03	12.24	21.45	15.54	9.53	3.59	65.38
South Behar ...	2.28	12.29	16.28	14.15	6.53	3.78	55.31
Chutia Nagpur ...	1.72	10.10	15.22	10.01	7.03	2.07	46.15

Variation of actual Rainfall from the average in inches.

Orissa ...	— 0.03	+ 2.27	— 0.43	— 2.12	+ 6.96	+ 2.84	+ 9.49
South-West Bengal ...	— 0.69	+ 4.14	+ 0.20	— 4.10	+ 0.32	+ 3.74	+ 3.61
East Bengal ...	+ 0.18	— 1.96	+ 3.36	— 1.83	— 4.87	+ 1.49	— 3.63
North Bengal ...	— 1.64	+ 5.60	+ 3.98	+ 4.36	+ 5.75	+ 7.92	+ 25.97
North Behar ...	— 0.17	+ 3.52	+ 9.11	+ 3.94	— 0.32	+ 0.05	+ 16.13
South Behar ...	— 0.11	+ 5.58	+ 4.26	+ 2.78	— 1.45	+ 0.48	+ 11.54
Chutia Nagpur ...	— 0.93	+ 2.16	+ 2.13	— 3.51	— 1.68	— 0.90	— 2.73

Variation expressed in a percentage of the normal fall.

Orissa ...	— 1	+ 26	— 4	— 19	+ 68	+ 46	+ 18
South-West Bengal ...	— 13	+ 41	+ 2	— 32	+ 4	+ 86	+ 7
East Bengal ...	+ 2	— 11	+ 20	— 11	— 40	+ 27	— 5
North Bengal ...	— 19	+ 32	+ 28	+ 31	+ 43	+ 180	+ 36
North Behar ...	— 5	+ 40	+ 74	+ 34	— 3	+ 1	+ 33
South Behar ...	— 5	+ 83	+ 35	+ 24	— 18	+ 15	+ 26
Chutia Nagpur ...	— 35	+ 27	+ 16	— 26	— 19	— 30	— 6

12. Finally, the rainfall of the whole province from May to October inclusive averaged 65.43 inches, while the normal fall for the period is 56.81 inches, so that the actual average fall has been in excess by 8.62 inches. Expressed as a percentage, the actual rainfall in the province of Bengal for this period has been in excess of the normal by 15 per cent.

A. PEDLER,

Meteorological Reporter to the Govt. of Bengal.

METEOROLOGICAL OFFICE, BENGAL,

The 13th December 1890.

TABLE I.

Actual Monthly Rainfall of districts in Bengal for the months of May to October 1890.

[N. B.—The figures in this table are the arithmetical averages of the corresponding figures in the returns for the sub-divisional stations.]

DIVISION.	DISTRICT.	May.	June.	July.	August.	September.	October.	TOTAL.
ORISSA	Pooree ...	2.13	9.74	16.06	10.45	15.94	10.28	64.60
	Cuttack ...	3.69	9.33	14.70	9.96	16.78	7.62	62.08
	Balasore ...	5.12	13.37	7.16	7.94	18.42	9.28	61.29
SOUTH-WEST BENGAL.	South Midnapore and South-West 24-Pergunnahs.	7.42	9.91	7.36	9.72	13.32	18.37	66.10
	Midnapore ...	6.52	14.26	9.34	5.49	9.98	4.73	50.32
	24-Pergunnahs ...	5.38	12.77	9.16	9.46	9.66	10.44	56.87
	Hooghly and Howrah	4.73	16.50	8.90	8.51	9.48	6.03	54.15
	Bankoora ...	4.05	14.62	14.17	4.85	8.97	5.34	52.00
	Beerbhoom ...	1.87	17.22	16.00	10.25	10.27	8.08	63.69
	Burdwan ...	3.16	20.29	14.44	6.62	11.98	4.99	61.48
	Nuddea ...	4.50	12.21	11.59	8.57	10.09	8.74	55.70
	Moorshedabad ...	3.30	11.72	17.69	10.95	9.85	7.44	60.95
EAST BENGAL	Khoolna and Jessore ...	6.11	14.65	11.63	9.34	5.34	7.85	54.92
	Chittagong ...	4.92	25.29	48.20	24.42	11.40	3.88	118.11
	Chittagong Hill Tracts	8.96	14.77	22.71	15.39	9.31	4.30	75.44
	Backergunge ...	6.38	16.29	19.46	12.37	6.84	7.14	68.48
	Noakholly ...	10.65	19.79	25.79	24.44	11.05	8.80	100.52
	Furreedpore ...	5.71	9.07	11.14	10.04	4.10	7.53	47.59
	Dacca ...	11.29	13.29	14.93	12.55	3.57	5.18	60.81
	Tipperah ...	10.65	14.70	16.80	10.75	5.65	6.26	64.81
	Mymensingh ...	11.33	19.68	17.04	12.88	9.48	9.03	79.44
NORTH BEN-GAL.	Pubna ...	7.97	10.50	10.61	9.10	12.39	5.63	56.20
	Bogra ...	6.44	16.34	13.47	14.06	16.50	11.36	78.17
	Rajshahye ...	5.72	17.98	19.07	8.00	15.16	10.02	75.95
	Maldah ...	4.63	11.26	11.29	16.59	12.95	7.60	64.32
	Dinagopore ...	6.14	16.53	16.80	16.10	17.42	11.44	84.43
	Rungpore ...	8.69	28.01	14.50	14.93	26.65	18.28	111.06
	Julpigoree and Cooch Behar.	7.67	44.13	30.75	36.43	24.68	14.98	158.64
	Darjeeling Hill ...	7.40	32.39	60.22	31.87	22.38	14.28	168.54
NORTH BEHAR	Purneah and North Bhagulpore.	3.51	15.23	23.04	18.87	14.09	6.23	80.97
	Durbhanga ...	2.31	10.87	22.94	14.88	5.94	1.74	58.68
	Mozufferpore ...	2.60	8.36	20.20	13.26	7.18	1.79	53.39
	Chumparun ...	4.35	12.65	23.38	13.92	9.08	5.67	69.05
	Sarun ...	2.09	10.53	17.28	14.46	8.18	1.48	54.02
SOUTH BEHAR	Shahabad ...	0.71	10.32	16.44	13.43	7.45	1.34	49.69
	Gya ...	1.20	13.18	17.47	20.10	4.85	0.43	57.23
	Patna ...	2.41	8.46	15.40	14.04	7.57	1.34	49.22
	Monghyr and South Bhagulpore.	3.35	12.64	16.89	12.23	5.35	3.17	53.63
	Sonthal Pergunnahs...	3.31	15.60	15.45	12.45	7.18	10.21	64.20
CHUTIA NAG-PUR.	Hazaribagh ...	1.08	10.74	17.98	9.72	7.74	1.75	49.01
	Lohardugga ...	1.83	7.87	15.50	14.27	6.36	1.63	47.46
	Manbhoom ...	1.94	12.36	10.78	7.60	5.99	3.31	41.98
	Singbhoom ...	4.25	9.04	9.42	3.48	7.18	1.73	35.10

TABLE II.

Variation of the average district actual Monthly Rainfall from the normal average for the months of May to October 1890.

DIVISION.	DISTRICT.	May.	June.	July.	August.	September.	October.	TOTAL.
ORISSA	Pooree ...	-0.87	+1.32	+4.07	-1.43	+5.79	+2.10	+10.98
	Cuttack ...	+0.18	-0.19	+2.47	-1.06	+7.45	+1.99	+10.84
	Balasore ...	+0.37	+4.97	-5.85	-3.47	+7.32	+4.03	+7.37
SOUTH-WEST BENGAL.	South Midnapore and South-West 24-Pergunnahs.	+2.62	+0.10	-8.10	-4.59	+1.88	+10.65	+2.56
	Midnapore ...	+1.33	+4.82	-3.41	-8.44	+1.89	+0.46	-3.35
	24-Pergunnahs ...	-0.34	+3.04	-3.26	-3.73	+0.89	+6.34	+2.94
	Hooghly and Howrah ...	-0.63	+6.80	-3.96	-5.60	+0.96	+2.10	-0.33
	Bankoora ...	+0.22	+4.64	+0.78	-9.51	+0.80	+1.88	-1.19
	Beerbhoom ...	-1.54	+7.15	+3.06	-2.85	+0.39	+4.62	+10.83
	Burdwan ...	-1.89	+11.41	+3.86	-5.48	+4.31	+1.02	+13.23
	Nuddea ...	-1.87	+2.49	+1.35	-3.46	+1.50	+4.53	+4.54
EAST BENGAL	Moorshedabad ...	-1.96	+2.59	+6.81	-0.93	-0.55	+3.22	+9.18
	Khoolna and Jessore ...	-0.68	+2.33	+0.44	-2.64	-3.60	+3.43	-0.72
	Chittagong ...	-5.08	-4.34	+17.14	+0.97	-2.92	-2.78	+2.99
	Chittagong Hill Tracts ...	-0.57	-4.63	+5.31	-1.61	-3.24	-2.86	-7.60
	Backergunge ...	-1.28	-2.91	+1.48	-3.24	-5.28	+1.59	-9.64
	Noakholly ...	+0.26	-7.53	+2.52	-0.23	-5.71	+2.43	-8.26
	Furreedpore ...	-2.88	-3.48	-0.76	-2.02	-4.95	+3.09	-11.00
	Dacca ...	+2.43	0	+0.90	-0.53	-6.60	+0.73	-3.07
NORTH BENGAL.	Tipperah ...	+0.52	-1.75	+2.98	-5.22	-5.70	+1.15	-8.02
	Mymensingh ...	+1.63	+2.20	+3.68	-0.96	-3.56	+3.62	+6.61
	Pubna ...	+0.86	-0.65	+0.04	-2.90	+1.97	+1.04	+0.36
	Rogra ...	-1.35	+3.57	+0.72	+2.43	+6.09	+6.96	+18.42
	Rajshabye ...	-0.15	+6.89	+7.72	-3.08	+3.30	+6.29	+20.97
	Maldah ...	+0.14	-0.60	-0.70	+4.57	+1.90	+3.91	+9.29
	Dinagepore ...	+0.04	+3.01	+4.75	+4.56	+6.10	+7.89	+26.35
	Rungpore ...	-2.54	+6.71	+0.51	+2.86	+13.21	+13.39	+34.14
NORTH BEHAR	Julpigoree and Cooch Behar.	-5.43	+13.05	+9.83	+13.98	+3.64	+9.69	+44.76
	Darjeeling Hill ...	-3.45	+3.97	+27.52	+4.89	+3.74	+8.23	+44.90
	Purneah and North Bhagulpore.	-1.43	+3.73	+9.28	+5.19	+1.70	+2.62	+21.09
	Durbhunga ...	-0.32	+2.84	+11.35	+4.13	-3.31	-1.18	+13.51
	Mozufferpore ...	+0.14	+0.94	+8.78	+3.18	-1.81	-1.61	+9.62
	Chumparun ...	+1.76	+4.46	+11.81	+1.98	-0.22	+2.13	+21.92
	Sarun ...	+0.99	+4.11	+5.10	+4.17	+0.73	-2.73	+11.47
	Shahabad ...	-0.61	+5.31	+5.09	+1.96	+0.38	-1.96	+10.17
SOUTH BEHAR	Gya ...	-0.57	+7.55	+5.24	+8.37	-1.94	-2.40	+16.25
	Patna ...	+0.32	+2.22	+3.45	+3.56	+0.53	-1.91	+8.17
	Monghyr and South Bhagulpore.	+0.90	+5.69	+5.29	+1.17	-2.56	-0.03	+10.46
	Sonthal Pergunnahs ...	-0.53	+6.65	+2.59	+0.54	-3.03	+6.46	+12.68
CHUTIA NAGPUR.	Hazaribagh ...	-1.38	+2.66	+4.54	-4.00	-1.33	-1.22	-0.73
	Lohardugga ...	-0.54	+0.39	+2.70	+0.96	-2.54	-1.09	-0.12
	Manbhoom ...	-0.83	+4.28	-1.29	-5.60	-1.79	-0.03	-5.17
	Singbhoom ...	+0.08	+0.74	-4.85	-10.35	-1.14	-1.22	-16.74

TABLE III.

The variation of the average District Monthly Rainfall expressed as a percentage of the Normal Rainfall for the months May to October 1890.

DIVISION.	District.	May.	June.	July.	August.	September.	October.	TOTAL.
ORISSA	Pooree ...	-29	+16	+34	-12	+57	+26	+20
	Cuttack ...	+5	-2	+20	-10	+80	+35	+21
	Balasore ...	+8	+59	-45	-30	+66	+77	+14
SOUTH-WEST BENGAL.	South Midnapore and South-West 24-Pergunnahs.	+55	+1	-53	-32	+16	+138	+4
	Midnapore ...	+26	+51	-27	-60	+23	+11	-6
	24-Pergunnahs ...	-6	+31	-26	-28	+10	+155	+5
	Hooghly and Howrah	-12	+70	-31	-40	+11	+54	-1
	Bankoora ...	+6	+46	+6	-66	+10	+54	-2
	Beerbhoom ...	-45	+71	+24	-22	+4	+134	+20
	Burdwan ...	-37	+129	+36	-45	+56	+26	+27
	Nuddea ...	-29	+26	+13	-29	+17	+108	+9
	Moorsshedabad ...	-37	+28	+63	-8	-5	+76	+18
EAST BENGAL	Khoolna and Jessore	-10	+19	+4	-22	-40	+78	-1
	Chittagong ...	-51	-15	+55	+4	-20	-42	+3
	Chittagong Hill Tracts	-6	-24	+31	-10	-26	-40	-9
	Backergunge ...	-17	-15	+8	-21	-44	+28	-12
	Noakhally ...	+3	-28	+11	-1	-34	+38	-8
	Furreedpore ...	-34	-28	-6	-17	-55	+70	-19
	Dacca ...	+27	0	+7	-4	-65	+16	-5
	Tipperah ...	+5	-11	+22	-33	-50	+23	-11
	Mymensingh ...	+17	+13	+28	-7	-27	+67	+9
NORTH BEN-GAL.	Pubna ...	+12	-6	+1	-24	+19	+23	+1
	Bogra ...	-17	+28	+6	+21	+58	+158	+31
	Rajshahye ...	-3	+62	+68	-28	+28	+169	+38
	Maldah ...	+3	-5	-6	+38	+17	+106	+17
	Dinagapore ...	+1	+22	+39	+39	+54	+222	+45
	Rungpore ...	-23	+32	+4	+24	+98	+274	+43
	Julpigoree and Cooch Behar.	-41	+42	+47	+62	+17	+183	+39
	Darjeeling Hill ...	-32	+14	+84	+18	+20	+136	+36
NORTH BEHAR	Purneah and North Bhagulpore.	-29	+32	+67	+38	+14	+73	+35
	Durbhunga ...	-12	+35	+98	+38	-36	-40	+30
	Mozufferpore ...	+6	+13	+77	+32	-20	-47	+22
	Chumparun ...	+68	+54	+102	+17	-2	+60	+47
	Sarun ...	+5	+64	+42	+41	+10	-65	+27
SOUTH BEHAR	Shahabad ...	-46	+106	+45	+17	+5	-59	+26
	Gya ...	-32	+134	+43	+71	-29	-85	+40
	Patna ...	+15	+36	+29	+34	+8	-59	+20
	Monghyr and South Bhagulpore.	+37	+82	+46	+10	-32	-1	+24
	Sonthal Pergunnahs...	-14	+74	+20	+5	-30	+172	+25
CHUTIA NAG-PUR.	Hazaribagh ...	-56	+33	+34	-29	-15	-41	-2
	Lohardugga ...	-23	+5	+21	+7	-29	-40	0
	Manbhoom ...	-30	+53	-11	-42	-22	-1	-11
	Singbhoom ...	+2	+9	-34	-75	-14	-41	-32

TABLE IV.

Monthly Rainfall of the Sub-divisional Rainfall-recording Stations in the Province of Bengal for the months of May to October 1890.

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
ORISSA	Pooree	Pooree ...	1.84	9.29	14.81	13.55	16.30	11.90	67.69
		Khurdah ...	3.84	12.74	23.14	3.80	13.23	8.71	65.46
		Banpur ...	0.50	6.52	14.02	13.42	18.52	9.80	62.78
		False Point ...	2.35	10.40	12.27	11.01	15.71	10.71	62.45
		Gop ...	?	?	18.53	8.36	15.98	10.49	?
		Satpara ...	0.30	5.85	11.21	5.91	7.50	9.71	40.48
		Pipli ...	2.39	12.56	31.60	10.61	11.76	6.69	75.61
	Cuttack	Jagatsingapore ...	1.05	9.68	15.06	10.05	17.33	9.45	62.62
		Banki ...	3.15	11.40	14.70	11.13	13.99	6.47	60.84
		Cuttack ...	3.83	12.24	21.15	14.03	21.02	8.54	80.81
		Kendrapara ...	3.73	4.72	11.25	9.12	16.55	7.31	52.68
		Jajpore ...	6.69	8.62	11.33	5.49	15.01	6.32	53.46
		Dharmasala ...	5.05	13.40	11.37	6.42	12.19	5.10	53.53
		Salipore ...	1.91	12.44	12.94	5.00	11.85	7.71	51.85
	Balasore	Chandbali ...	4.01	9.31	10.50	6.32	13.74	8.54	52.45
		Bhuddruck ...	4.57	14.36	7.24	5.89	14.47	11.14	57.67
		Sorah ...	5.20	14.78	6.20	9.39	19.07	7.00	61.64
		Balasore ...	6.20	14.76	5.76	7.86	22.89	9.18	66.65
		Jellasore ...	5.96	12.22	5.79	8.46	22.05	10.36	64.84
		Baripodah ...	4.72	14.77	7.49	9.74	18.30	9.43	64.45
	Midnapore	Contai ...	10.06	10.18	3.76	6.74	15.11	21.61	67.46
		Saugor Island ...	5.66	9.80	8.07	9.88	12.52	21.76	67.69
		Tumlook ...	9.20	12.70	10.40	6.50	12.20	7.10	58.10
		Midnapore ...	5.81	17.50	6.04	5.72	7.80	5.10	47.97
		Ghatal ...	4.54	12.57	11.57	4.25	9.95	1.98	44.86
		Kukrahaty ...	5.40	7.16	6.10	8.12	13.71	10.25	50.74
SOUTH-WEST BENGAL.	24-Pergunnahs.	Garbeta ...	3.39	11.91	15.22	3.11	9.02	3.58	46.23
		Diamond Harbour ...	6.52	9.76	10.26	12.53	12.34	11.77	63.18
		Canning Town ...	4.49	14.59	10.41	16.62	7.18	14.03	67.32
		Alipore Jail ...	4.70	13.93	11.55	10.14	12.42	9.68	62.42
		Barrackpore ...	5.59	11.82	8.76	8.31	9.13	8.41	52.02
		Dum-Dum ...	3.48	13.28	6.88	8.62	11.77	12.04	56.07
	Howrah	Baraset ...	6.76	10.59	7.32	9.47	9.69	11.17	55.00
		Buseerhat ...	6.38	14.25	11.31	10.76	5.31	10.89	58.90
		Howrah ...	3.16	13.44	8.61	9.27	9.95	7.06	51.49
		Mohesreka ... (Oolooberiah).	5.56	24.86	6.50	7.36	10.01	5.28	59.57
		Serampore ...	5.44	12.67	9.08	9.41	10.53	8.41	55.54
		Hooghly ...	4.33	15.47	6.38	7.52	12.52	6.17	52.39
	Burdwan	Jehanabad ...	5.14	16.04	13.91	8.98	4.38	3.21	51.66
		Culna ...	3.06	18.07	11.88	6.63	10.91	3.97	54.52
		Burdwan ...	2.96	21.02	19.52	7.16	11.00	3.50	65.16
		Cutwa ...	3.47	21.78	11.92	6.06	14.04	7.40	64.76
		Raneegunge ...	2.48	17.89	13.47	9.74	8.03	8.83	60.44
		Mankur ...	4.14	16.99	10.99	7.41	4.89	3.38	47.80
	Bankoora	Bankoora ...	4.61	12.16	20.70	4.25	11.28	4.76	57.76
		Bishenpore ...	6.58	15.44	10.85	3.52	9.90	4.66	50.95
		Maliara ...	1.50	21.94	14.87	7.37	7.63	5.92	59.23
		Khatra ...	3.52	8.95	10.24	4.27	7.06	6.02	40.06
		Indas ...	2.73	16.26	21.87	6.48	6.89	5.74	59.97
		Kotalpore ...	4.87	18.54	23.34	6.88	6.63	6.68	66.94

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
SOUTH- WEST BENGAL— concl'd.	Bankoora— concluded.	Anda ...	3.30	12.51	16.35	2.57	11.18	9.20	55.11
		Gangajalghati ...	3.01	23.18	15.93	7.27	10.49	3.87	63.75
		Raipore ...	6.65	10.24	15.05	6.29	9.15	6.13	53.51
		Sonamukhi ...	2.46	14.25	16.08	6.44	9.00	4.51	52.74
	Beerbhoom ...	Bh. Soory ...	1.16	16.36	20.92	8.64	8.57	6.37	62.02
		Hetampore ...	1.03	17.62	13.94	6.35	11.58	9.03	59.55
		Rampore Haut... ..	2.78	17.00	15.65	16.28	12.89	8.08	72.68
		Bolpore ...	2.76	16.59	13.94	8.66	10.25	4.03	56.23
	Nuddea ...	Morarai ...	2.26	10.21	19.69	10.62	7.00	7.11	56.89
		Ranaghat ...	2.91	15.04	11.87	7.72	11.02	7.50	55.96
		Kishnaghur ...	5.27	14.31	13.07	9.11	12.13	7.67	61.56
		Chooadanga ...	4.58	10.17	8.76	8.23	8.08	8.27	48.09
	Khoolna ...	Meherpore ...	2.36	11.97	13.45	8.98	9.06	13.25	59.07
		Kooshtea ...	7.38	9.58	10.80	8.89	10.15	6.99	54.79
		Satkhiria ...	8.39	13.32	10.53	11.42	6.82	7.04	57.52
		Bagirhat ...	6.13	20.84	15.53	8.61	5.66	6.35	63.12
	Jessore ...	Khoolna ...	5.73	15.74	12.79	7.27	4.86	7.99	54.38
		Nakipore ...	10.71	15.58	9.53	15.05	9.03	15.13	75.03
		Rampal ...	5.94	15.54	15.40	9.51	8.38	11.44	66.21
		Narail ...	8.08	14.45	7.87	8.45	1.83	12.01	52.69
	Moorshed- abad.	Jessore ...	5.28	19.92	9.10	12.59	6.09	9.76	62.74
		Jhenidah ...	4.38	10.54	20.29	8.53	7.13	5.95	56.82
		Magoora ...	6.25	11.88	8.35	11.22	2.48	5.19	45.37
		Bongong ...	4.60	10.52	8.59	6.59	7.86	8.50	46.66
EAST BENGAL.	Chittagong...	Kandi ...	3.40	12.40	19.22	13.27	12.67	4.81	65.77
		Berhampore ...	1.76	10.79	20.50	11.29	8.52	7.61	60.47
		Lalbagh ...	2.03	10.85	23.07	10.86	9.66	7.59	64.06
		Azimungunge ...	4.87	13.36	14.13	9.33	9.93	6.85	58.47
	Chittagong Hill Tracts.	Jungipore ...	0.96	12.48	11.65	10.71	7.53	8.46	51.79
		Lalgola ...	6.82	10.45	17.54	10.21	10.78	9.30	65.10
		Jiagunge ...	4.71	12.22	12.79	?	?	?	?
		Akhriungunge ...	3.96	12.03	18.48	7.79	11.26	8.63	62.15
	Backer- gunge.	Patkabari ...	1.80	13.60	13.40	?	10.60	6.00	?
		Cox's Bazar ...	7.35	34.10	45.12	26.45	11.79	3.39	128.20
		Chittagong ...	2.49	16.48	51.28	22.39	11.01	4.38	108.03
		Kutubdia ...	6.62	15.57	43.42	25.39	15.54	6.30	112.84
	Noakholly...	Satkanya ...	4.37	13.40	33.82	17.55	10.61	3.35	83.11
		Rangamati ...	7.58	14.11	20.96	17.14	7.92	3.60	71.31
		Ruma ...	10.34	15.43	24.46	13.63	10.70	5.00	79.56
		Patuakhally ...	6.05	17.28	21.98	15.96	8.25	9.49	79.01
	Furreedpore	Perozepore ...	5.61	17.94	18.57	8.45	7.17	5.17	62.91
		Burrisal ...	7.08	18.34	18.27	8.52	7.43	7.07	66.71
		Bhola ...	6.77	11.61	19.01	16.56	4.51	6.81	65.27
		Gournaddi ...	3.90	13.78	11.39	6.40	4.50	5.49	45.46
	Dacca ...	Bauphal ...	7.00	12.78	21.21	14.97	8.62	8.94	73.52
		Noakholly ...	10.87	16.77	24.91	20.34	12.93	10.08	95.90
		Fenny ...	10.41	22.80	26.66	28.54	9.16	7.53	105.10
		Harishpore ...	12.20	27.68	46.20	55.78	21.30	10.90	174.06
	Hill Tipperah...	Ramganj ...	9.75	17.77	19.81	11.85	3.97	4.80	67.95
		Madaripore ...	5.72	7.62	11.01	7.62	2.08	8.71	42.76
		Furreedpore ...	5.21	10.87	11.02	14.47	4.04	7.38	52.99
		Goalundo ...	6.19	8.72	11.40	8.04	6.17	6.49	47.01
	Dacca ...	Munshigunge ...	12.11	13.80	13.95	12.00	3.43	4.17	59.46
		Dacca ...	13.17	11.08	15.72	11.30	1.98	6.06	59.31
		Naraingunge ...	12.69	12.82	18.24	14.43	1.99	3.26	63.43
		Manickgunge ...	7.15	15.47	11.82	12.48	6.87	7.23	61.02
	Hill Tipperah...	Joydebore ...	12.85	14.40	14.26	14.10	8.02	6.35	69.98
		Agertola ...	12.84	16.18	16.64	7.91	8.32	?	?

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
EAST BENGAL— concl'd.	Tipperah ...	Comilla ...	10.44	13.92	21.17	12.73	4.84	8.21	71.31
		Chandpore ...	9.02	15.39	12.82	12.74	4.52	5.12	59.61
		Brahmunberia ...	10.29	13.30	16.55	9.61	4.92	5.37	60.04
		Ramchandrapore ...	10.12	14.87	27.55	14.80	5.87	8.45	81.66
		Nasirnagar ...	14.94	9.68	8.19	5.15	2.85	1.80	42.61
		Daudkandi ...	5.18	9.83	5.29	4.30	2.90	5.21	32.71
		Kusba ...	13.80	23.74	17.95	2.18	0.62	0.84	59.13
		Laksham ...	11.45	16.40	25.44	12.80	3.63	3.22	72.94
	Mymensingh ...	Kishoregunge ...	11.84	18.30	13.81	14.85	7.98	6.10	72.88
		Atia (Tangail) ...	14.82	11.01	11.10	8.19	4.87	8.95	58.94
		Mymensingh ...	10.93	20.46	19.37	12.90	9.86	8.88	82.40
		Jamalpore ...	9.91	22.80	16.15	10.21	14.10	10.29	83.46
		Netrokona ...	9.17	25.81	24.77	18.27	10.60	10.92	99.54
		Subornakhally ...	7.95	9.19	13.57	5.32	16.80	6.86	59.69
		Durgapore ...	13.73	32.23	29.92	26.61	12.45	11.83	120.77
		Sherepore Town ...	9.09	18.07	13.49	8.17	12.58	9.48	70.88
		Dewanganj ...	12.09	17.59	15.78	9.43	9.94	11.02	75.85
	Pubna ...	Pubna ...	4.82	11.33	8.77	9.48	8.85	4.14	47.39
		Serajgunge ...	11.14	9.66	12.44	8.72	15.93	7.11	65.00
	Bogra ...	Sherepore ...	4.83	16.12	14.87	14.72	17.59	10.18	78.31
		Nowkhilla ...	10.23	12.15	15.04	11.66	11.50	10.18	70.76
		Bogra ...	4.87	13.80	13.82	17.08	18.44	12.06	80.07
		Panchbibi ...	5.78	23.27	10.13	12.79	18.46	13.05	83.48
	Rajshahye ...	Beauleah ...	3.69	17.03	22.67	6.91	10.82	10.43	71.55
		Nattore ...	7.35	21.28	18.23	10.16	20.82	10.00	87.84
		Naogaon ...	6.13	15.64	16.30	6.90	13.85	9.63	68.45
		Lalpor ...	5.02	8.41	13.16	7.87	11.28	8.66	54.40
		Manda ...	3.82	8.56	12.20	5.82	6.55	12.97	49.92
NORTH BENGAL.	Maldah ...	Maldah ...	4.72	11.50	9.93	18.64	14.43	6.87	66.09
		Chanchal ...	4.55	11.02	12.65	14.55	11.47	8.33	62.57
		Gajol ...	3.47	13.48	17.00	23.39	14.39	6.52	78.25
		Sibgunj ...	6.02	13.75	14.96	7.81	7.78	13.10	63.42
	Dinapore ...	Mohadebpore ...	6.12	13.91	16.98	7.50	18.02	8.51	71.04
		Churamon ...	5.49	18.08	16.64	16.93	16.44	9.78	83.36
		Raigunge ...	4.40	17.02	19.22	24.25	15.75	13.77	94.41
		Dinapore ...	8.52	17.81	16.88	18.05	14.00	14.78	90.14
		Baloorghat ...	6.16	15.81	14.26	13.75	22.87	10.39	83.24
	Rungpore ...	Thakurgaon ...	8.45	30.56	15.56	23.23	18.42	17.31	113.53
		Bhawanigunge ...	10.69	23.78	16.37	15.96	42.12	20.20	129.12
		(Gyabanda) ...							
		Rungpore ...	8.83	25.09	13.73	11.27	23.56	19.95	102.43
		Kurigram ...	7.29	31.01	12.92	11.43	19.07	17.57	99.29
	Julpigoree ...	Bagdogra ...	7.96	32.16	14.99	21.07	21.85	15.37	113.40
		(Nilphamari) ...							
		Ulipore ...	15.99	21.63	9.28	18.94	22.55	17.78	106.17
	Julpigoree ...	Julpigoree ...	7.47	40.82	41.46	31.07	21.27	18.29	160.38
		Alipore Doar ...	6.44	55.30	38.44	46.07	30.07	14.27	190.59
		Fallacotta ...	4.72	44.77	40.99	20.12	21.70	16.59	148.89
		Debigunj ...	9.71	32.63	16.54	26.52	19.78	13.22	118.40
		Bhagalpore (Na- grakatta) ...	10.69	29.39	56.84	37.06	37.10	15.49	186.57
	Cooch Behar ...	Dinhatia ...	6.55	40.74	17.32	24.73	26.37	16.98	132.69
		Cooch Behar ...	7.07	47.90	29.08	45.32	29.86	12.49	171.72
		Mickilgunge ...	9.76	47.11	25.75	37.64	19.90	13.01	153.17
		Matabhanga ...	7.48	44.07	40.12	43.35	26.01	14.14	175.17
	Darjeeling Hill.	Buxa ...	10.43	44.09	60.55	51.48	27.54	20.68	214.77
		Siliguri ...	9.60	32.57	69.64	25.81	30.62	13.36	181.60
		Darjeeling ...	6.11	31.32	58.63	30.21	16.09	10.62	152.98
		Kalimpong ...	3.47	21.58	52.06	19.99	15.25	12.44	124.79
		Kurseong ...	10.41	40.37	71.41	37.64	23.15	13.01	195.99

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
NORTH BEHAR.	Purneah	Kissengunge ...	3.51	25.42	21.52	27.97	16.21	13.32	107.94
		Arrareah ...	5.07	13.40	24.28	19.91	16.63	6.43	85.72
		Purneah ...	3.44	15.07	19.59	19.12	20.90	6.68	84.80
		Gondwara ...	3.10	8.28	21.07	?	?	5.04	?
		Balarampore ...	3.75	16.60	23.14	32.03	14.46	12.75	102.73
		Matari ...	1.74	13.39	14.80	17.06	?	4.77	?
		Kaliaganj ...	5.39	29.15	27.12	28.17	24.69	7.40	121.92
	North Bha- gulpore.	Maddapore ...	3.30	13.61	23.50	11.10	7.37	3.23	62.11
		Sooopool ...	2.24	8.67	26.31	16.25	9.36	1.50	64.38
		Protappanj ...	1.18	10.79	16.14	11.13	8.00	2.56	49.80
	Durbhunga...	Tajpore ...	1.48	8.78	21.99	11.07	8.45	0.73	52.50
		Durbhunga ...	2.30	11.20	22.58	15.84	5.10	2.37	59.39
		Madhubani ...	3.16	12.63	24.24	17.72	4.27	2.09	64.11
		Bahera ...	2.85	12.53	20.02	8.65	7.33	1.84	53.22
		Roshera ...	1.70	10.60	15.86	14.00	7.83	2.13	52.12
	Mozufferpore	Sitamarhi ...	2.49	8.37	18.16	14.73	7.30	2.61	53.66
		Mozufferpore ...	1.43	9.12	23.02	15.59	5.96	1.56	56.68
		Hajipore ...	3.89	7.58	19.43	9.45	8.29	1.19	49.83
		Paru ...	1.65	9.62	22.18	18.43	13.93	6.00	71.81
		Mohua ...	2.53	10.83	17.73	9.64	5.00	0.76	46.49
		Suhaar ...	3.05	11.25	16.88	9.25	9.75	4.50	54.68
		Pupri ...	1.52	11.69	20.11	11.39	4.35	1.84	50.90
	Chumparun	Motihari ...	7.09	11.49	24.30	12.66	10.66	6.46	72.66
		Bettiah ...	1.60	13.80	22.46	15.18	7.49	4.89	65.42
		Bagaha ...	0.73	16.67	29.87	20.35	?	3.39	71.01?
		Burhurua ...	2.97	14.36	20.49	10.69	9.18	2.12	59.81
	Sarun	Gopalgunge ...	1.64	8.35	15.39	17.87	7.39	1.67	52.81
		Sewan ...	1.71	12.69	17.75	15.47	11.61	0.81	60.04
		Chuprah ...	2.91	10.06	18.70	10.03	5.54	1.95	49.19
	Shahabad	Buxar ...	1.69	9.64	14.74	16.59	8.46	1.80	52.92
		Dehree ...	Nil	10.32	12.93	14.25	5.26	0.38	43.14
		Bhubooah ...	Nil	9.76	12.55	10.58	7.91	0.31	41.11
		Sasseram ...	0.37	9.93	13.55	12.82	6.70	0.94	44.31
		Arrah ...	1.51	11.94	28.44	12.93	8.92	3.29	67.03
		Mohaniah ...	Nil	7.00	13.16	9.31	6.60	?	36.07?
SOUTH BEHAR.	Gya	Aurungabad ...	0.34	9.73	14.01	29.87	5.03	0.51	59.49
		Gya ...	0.90	11.15	21.57	20.95	6.02	0.34	60.93
		Nowadah ...	1.18	16.67	18.05	14.86	3.80	0.43	54.99
		Jehanabad ...	2.35	15.15	16.25	14.70	4.57	0.42	53.44
		Arwal ...	1.56	9.24	18.50	20.20	6.60	?	56.10?
		Daudnagar ...	0.27	3.74	11.99	8.95	4.70	0.20	29.85
		Sherghati ...	Nil	6.99	9.68	14.46	4.01	1.67	36.81
		Rajauli ...	Nil	13.04	13.37	14.91	3.48	0.80	45.60
	Patna	Pakri Barawan ...	6.35	9.13	14.00	14.10	3.69	2.97	44.24
		Patna ...	3.39	7.80	17.41	17.38	4.94	1.02	51.94
		Dinapore ...	3.23	7.56	14.85	16.29	9.54	1.97	53.44
		Behar ...	1.07	11.24	15.56	9.99	7.98	1.11	46.95
		Barh ...	1.93	7.25	13.76	12.49	7.80	1.25	44.48
		Bickram ...	1.08	12.82	22.48	14.96	5.63	1.38	58.35
	Monghyr	Hilsa ...	2.25	14.42	13.70	11.55	7.25	1.07	50.24
		Beegooserai ...	2.60	10.09	14.08	10.59	5.84	2.26	45.46
		Monghyr ...	4.18	14.50	18.63	9.95	6.80	2.36	56.42
		Jamui ...	1.20	18.41	21.53	11.99	4.95	2.14	60.22
		Gogri ...	4.39	13.11	28.30	21.16	7.59	4.34	78.89
	South Bha- gulpore.	Sheikpura ...	0.30	14.89	11.64	14.83	4.13	1.97	47.76
		Bhagulpore ...	4.47	10.90	17.83	18.62	5.68	5.41	62.91
		Banka ...	4.31	9.29	12.39	10.02	3.50	3.63	43.14
		Kolgong ...	3.91	14.82	20.93	10.64	7.89	5.77	63.96
		Bangaon ...	2.30	11.39	28.29	15.16	?	?	?

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
SOUTH BEHAR —concluded.	Sonthal Per- gunnahs.	Rajmehal ...	3.18	13.89	10.07	11.60	10.61	8.59	57.94
		Godah ...	4.75	10.81	17.18	10.30	3.65	5.66	52.35
		Pakour ...	5.89	22.76	13.40	11.88	10.70	12.19	76.82
		Nya Doomka ...	2.02	14.99	18.11	19.91	6.80	12.35	74.18
		Deoghur ...	1.91	10.65	17.50	9.84	5.35	4.18	49.43
		Jamtara ...	2.10	20.51	16.41	11.27	5.95	18.25	74.49
		Mohasama ...	1.77	14.60	11.65	15.55	3.21	3.28	50.06
		Nanihat ...	0.59	6.67	10.31	5.27	4.48	3.66	30.98
	Hazaribagh.	Pachamba (Giridi) ...	1.53	18.20	16.38	9.57	6.74	3.08	55.50
		Hazaribagh ...	1.06	8.92	20.09	10.99	7.76	1.33	50.15
		Semtagurah ...	1.07	8.06	14.14	8.33	7.20	0.70	39.50
		Mahudi Hills ...	1.34	4.23	18.78	9.62	7.02	2.37	43.36
		Jhoomra Hills ...	0.40	14.30	20.50	10.10	10.00	1.90	57.20
		Barkhi ...	0.77	8.17	17.81	16.03	4.69	3.00	50.47
		Chatra ...	1.70	7.30	17.32	16.05	3.56	2.05	47.98
		Karagdeha ...	2.02	15.58	17.04	13.73	3.08	5.89	57.34
		Ramghar ...	3.90	7.94	11.49	16.60	9.05	2.53	51.51
CHUTIA NAGPUR.	Lohardugga	Lohardugga ...	0.76	8.34	14.77	22.18	5.93	1.76	53.74
		Ranchee ...	3.27	7.99	13.62	7.76	9.29	2.54	44.47
		Palamow ...	1.48	7.27	18.12	12.87	3.85	0.59	44.18
		Silli ...	3.20	7.20	11.40	8.50	7.80	5.40	43.50
		Balumati ...	0.06	7.13	15.25	17.34	?	1.29	41.07
		Hosseinabad ...	0.15	7.47	9.98	14.31	9.84	Nil	41.75
		Garwah ...	Nil	7.85	9.01	15.64	5.80	Nil	38.80
	Singbhoom	Chyebassa ...	4.25	9.04	9.42	3.48	7.18	1.73	35.10
		Chakradharpore ...	0.15	3.90	11.30	4.06	3.47	1.70	24.58
		Ghatsilla ...	4.43	11.46	16.88	5.53	9.26	5.25	52.81
		Baharagura ...	4.82	15.82	11.05	9.46	9.19	1.43	51.77
	Manbhoom	Purulia ...	3.37	12.98	11.42	8.78	5.59	3.03	45.17
		Gobindpore ...	0.52	11.74	10.14	6.42	6.39	3.57	38.78
		Raghunathpore ...	2.34	14.36	17.75	16.32	8.00	3.34	62.11
		Barrabhoom ...	4.23	8.36	17.60	6.08	5.98	1.90	44.15
		Jhaldi ...	2.36	10.29	17.26	18.17	8.82	8.51	65.41
		Chas ...	1.78	14.56	12.00	11.62	5.40	5.32	50.68

TABLE V.

Variation of the Subdivisional actual Monthly Rainfall from the normal average for the months May to October 1890.

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
ORISSA	Pooree	Pooree ...	-0.82	+1.73	+4.90	+2.62	+6.35	+3.85	+18.63
		Khurdah ...	+0.50	+3.64	+10.59	-8.78	+2.87	+2.11	+10.93
		Banpur ...	-1.43	-0.59	+3.08	+1.37	+8.75	+2.96	+14.14
		False Point ...	-1.28	+1.48	-1.88	-2.59	+4.57	+0.44	+0.74
	Cuttack	Jagatsingapore ...	-1.71	+2.14	+4.08	-1.32	+8.72	+2.98	+14.89
		Banki ...	+1.06	+1.12	+2.92	+1.00	+4.45	+1.66	+12.21
		Cuttack ...	+0.56	+1.74	+8.75	+2.39	+11.32	+3.09	+27.85
		Kendrapara ...	-0.21	-3.80	-0.54	-4.12	+7.41	+1.37	+0.11
		Jajpore ...	+2.34	-0.90	-1.86	-6.25	+5.07	+1.20	-0.40
	Balasore	Chandbali ...	-0.85	+1.98	-1.33	-5.58	+2.70	+2.47	-0.61
		Bhuddruck ...	-0.60	+5.68	-4.85	-5.33	+3.97	+6.71	+5.58
		Sorah ...	+0.21	+8.19	-5.75	-2.06	+7.94	+1.76	+10.29
		Balasore ...	+1.23	+4.89	-6.13	-4.92	+10.26	+2.57	+7.90
		Jellasure ...	+2.32	+4.51	-9.13	-2.89	+11.57	+6.02	+12.40
		Baripodah ...	-0.17	+4.22	-4.84	-2.49	+6.53	+5.04	+8.29
	Midnapore	Contai ...	+5.64	-0.14	-10.65	-7.48	+3.37	+13.52	+4.26
		Saugor Island ...	+1.19	-1.06	-7.91	-6.13	-0.04	+12.70	-1.25
		Tumlook ...	+4.40	+3.78	-1.85	-8.06	+3.87	+2.91	+5.05
		Midnapore ...	+0.49	+7.98	-7.86	-6.80	-0.39	+0.18	-6.40
		Ghattal ...	-0.60	+2.78	-2.05	-11.80	+0.97	-1.34	-12.04
		Garbeta ...	-0.60	+4.11	+1.69	-10.14	-0.02	+1.02	-3.94
	24 Pergunnahs	Diamond Harbour ...	+1.53	+0.41	-4.27	-2.47	+1.33	+6.72	+3.25
		Alipore Jail ...	-0.59	+4.14	-1.82	-4.08	+2.52	+5.38	+5.55
		Barrackpore ...	+0.42	+2.93	-3.73	-4.26	+1.69	+5.08	+2.13
		Dum-Dum ...	-2.43	+3.68	-5.30	-4.78	+2.98	+7.76	+1.91
		Baraset ...	+0.91	+0.90	-3.92	-3.04	+0.67	+6.81	+2.33
		Buseerhat ...	-0.01	+3.56	-1.51	-2.49	-3.39	+6.66	+2.82
	Howrah	Howrah ...	-1.92	+2.77	-3.99	-4.07	+0.85	+2.93	-3.43
		Mohesreka ... (Oolooberiah).	-0.47	+16.22	-6.98	-7.54	+1.68	+1.95	+4.86
SOUTH-WEST BENGAL.	Hooghly	Serampore ...	+0.48	+3.15	-4.05	-3.55	+2.63	+4.31	+2.97
		Hooghly ...	-1.31	+5.08	-5.84	-5.48	+4.89	+2.22	-0.44
		Jehanabad ...	+0.07	+6.75	+1.03	-7.37	-5.24	-0.95	-5.71
	Burdwan	Culna ...	-1.72	+9.71	+0.62	-5.43	+4.37	+0.23	+7.78
		Burdwan ...	-2.09	+11.65	+7.17	-5.22	+2.74	-0.90	+13.35
		Cutwa ...	-1.90	+11.88	+1.44	-6.63	+5.84	+3.64	+14.27
		Raneegunge ...	-0.61	+9.46	-0.59	-4.20	+0.89	+5.59	+10.54
	Bankoora	Bankoora ...	+1.19	+2.48	+7.92	-8.11	+2.72	+0.24	+6.44
		Bishenpore ...	+1.63	+4.94	-1.16	-10.55	+0.73	+1.79	-2.62
		Maliara ...	-1.59	+11.64	+0.84	-5.88	+1.01	+2.25	+8.27
		Khatra ...	+0.17	-2.24	-4.34	-9.00	-2.37	+2.10	-15.68
		Raipur ...	+2.41	+1.39	+2.96	-9.50	+0.23	+2.36	-0.15
	Beerbhoom	Bh. Soory ...	-2.13	+6.26	+8.28	-4.53	-1.20	+2.78	+9.46
		Hetampore ...	-2.25	+6.70	-0.40	-6.78	+1.26	+6.32	+4.85
		Rampore Haut... (Oolooberiah).	-0.69	+7.65	+4.52	+2.73	+1.67	+4.39	+20.27
	Nuddea	Ranaghat ...	-2.17	+5.64	+0.99	-5.38	+4.07	+3.86	+7.10
		Kishnaghur ...	-1.17	+4.79	+2.75	-2.18	+4.29	+3.14	+11.62
		Chooadanga ...	-3.27	+1.21	-1.33	-4.27	-1.76	+3.92	-5.50
		Meherpore ...	-3.62	+2.61	+3.34	-3.62	+1.14	+9.74	+9.59
		Kooshtea ...	+0.32	-0.98	-0.22	-3.07	+0.19	+2.26	-1.50

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
SOUTH- WEST BENGAL —concl'd.	Khoolna	Satkhirā	+2.46	+1.27	-2.88	-0.96	-1.89	+2.59	+0.59
		Bagirhat	-0.47	+8.11	+0.67	-4.25	-4.04	+1.32	+1.34
		Khoolna	-0.60	+3.20	+0.70	-4.93	-4.72	+3.92	-2.43
	Jessore	Narail	+1.52	+3.63	-1.22	-2.08	-5.25	+8.87	+5.47
		Jessore	-2.12	+6.79	-2.60	+0.83	-3.17	+4.40	+4.13
		Jhenidah	-2.09	-1.91	+10.54	-4.02	-1.58	+1.37	+2.31
		Magoora	-1.53	+0.23	-1.93	+1.25	-5.51	+1.44	-6.05
		Bongong	-1.08	+0.90	-2.61	-6.38	-0.48	+3.90	-5.75
	Moorsheadabad	Kandi	-1.00	+3.04	+6.60	+1.52	+3.80	+1.11	+15.07
		Berhampore	-3.11	+1.31	+10.11	+0.38	-1.11	+2.41	+9.99
		Lalbagh	-2.78	+2.05	+12.44	-1.85	-0.46	+3.33	+12.73
		Azimungunge	+0.21	+4.46	+3.42	-3.35	+0.40	+1.93	+7.07
		Jungipore	-3.86	+3.95	+0.68	-1.08	-3.11	+4.97	+1.55
EAST BEN- GAL.	Chittagong	Lalgola	+1.36	+1.41	+6.30	-1.26	+1.07	+5.17	+14.05
		Cox's Bazar	-3.03	+1.01	+3.81	-1.61	-2.92	-4.49	-7.23
	Chittagong Hill Tracts.	Chittagong	-6.70	-6.45	+29.15	+1.20	-2.74	-1.58	+12.88
		Rangamati	-2.31	-3.91	+2.18	-1.80	-4.64	-3.25	-13.73
	Backergunge	Ruma	+1.79	-3.99	+8.93	-1.76	-1.59	-2.39	+0.99
		Patuakhally	-1.92	-4.16	+0.15	-1.99	-4.60	+3.38	-9.14
		Perozepore	-1.15	+1.96	+2.11	-6.68	-3.98	-0.32	-8.06
		Burrisal	-0.52	+1.83	+1.49	-4.67	-4.01	+2.29	-3.59
	Noakholly	Bhola	-0.04	-8.58	+0.55	-2.52	-7.30	+0.55	-17.34
		Noakholly	+1.43	-6.90	+3.55	-2.88	-3.39	+2.40	-5.79
	Furreedpore	Fenny	-0.09	-3.43	+3.02	+3.95	-6.85	+1.39	-2.01
		Madaripore	-3.10	-5.47	-1.58	-4.58	-6.22	+4.69	-16.26
		Furreedpore	-3.22	-1.98	-1.65	+2.26	-5.35	+3.06	-6.88
	Dacca	Goalundo	-1.24	-2.35	-0.49	-3.50	-1.94	+1.89	-7.63
		Munshigunge	+3.06	-2.37	-2.17	-2.72	-8.77	-1.07	-14.04
		Dacca	+4.14	-1.92	+2.76	-1.09	-7.97	+0.97	-3.11
		Naraingunge	+3.85	-1.14	+2.55	+1.96	-7.31	-1.04	-1.13
NORTH BENGAL.	Hill Tipperah	Manickgunge	-1.51	+5.85	-0.29	+0.77	-1.01	+3.45	+7.26
		Agartola	+1.84	+1.97	+5.01	-5.86	-1.83	?	?
	Tipperah	Comilla	+0.07	-4.42	+3.27	-4.04	-6.59	+2.97	-8.74
		Chandpore	+0.40	-1.39	-2.29	-6.78	-7.28	-1.36	-18.70
		Brahmunberia	-0.73	-2.23	+5.38	-3.35	-6.69	+0.68	-6.94
	Mymensingh	Kishoregunge	+0.99	-0.56	+0.88	+1.73	-4.26	+0.92	-0.30
		Atia (Tangail)	+7.93	-1.76	-0.07	-3.77	-4.10	+4.05	+1.78
		Mymensingh	-1.09	-0.13	+3.28	-1.62	-4.17	+3.49	-0.24
		Jamalpore	+0.79	+7.56	+3.68	-3.50	+0.40	+5.43	+13.36
		Netrokona	-1.88	+4.03	+7.91	+1.30	-3.08	+3.65	+11.93
	Pubna	Pubna	-1.99	+0.21	-1.94	-3.19	-2.21	-0.43	-9.97
		Serajgunge	+3.31	-1.44	+1.49	-2.50	+6.45	+2.82	+10.13
	Bogra	Sherpore	-3.64	+4.41	+2.16	+2.43	+7.65	+6.23	+19.24
		Nowkhilla	+2.44	-0.49	+3.57	+0.86	+2.08	+5.42	+13.88
		Bogra	-3.92	-1.29	-2.01	+4.82	+6.68	+7.53	+11.81
		Panchbibi	-1.87	+12.24	-2.27	+1.36	+8.05	+9.06	+26.57
	Rajshahye	Beauleah	-1.90	+6.52	+11.18	-3.83	-0.03	+5.66	+17.60
		Nattore	+0.56	+11.30	+6.03	-2.16	+9.09	+5.74	+30.56
		Naogaon	+0.66	+1.95	+5.05	-1.85	+1.02	+6.42	+13.25
	Maldah	Maldah	+0.85	+1.67	-0.81	+8.37	+3.65	+2.64	+16.37
		Chanchal	-0.25	-0.63	+0.38	+0.82	+1.22	+5.31	+6.85

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
NORTH BENGAL —concl.	Dinagepore	Mohadebpore ..	-0.12	+1.11	+6.17	-5.15	+6.43	+5.51	+13.95
		Churamon ...	+0.72	+5.64	+4.35	+5.75	+3.53	+6.75	+26.74
		Raigunge ..	-1.99	+3.28	+6.53	+11.70	+5.40	+10.21	+35.13
		Dinagepore ...	+0.59	+0.97	+1.89	+4.84	+1.38	+10.06	+19.73
		Baloorghat ...	-0.38	+2.97	+3.76	+4.12	+10.62	+6.22	+27.31
	Rungpore ...	Bhawanigunge (Gyabanda) ...	+1.58	+8.09	+4.46	+5.67	+30.45	+15.37	+65.62
		Rungpore ...	-1.84	+4.06	-2.04	-1.73	+10.50	+15.19	+24.14
		Kurigram ...	-6.29	+7.00	-0.45	+0.57	+6.36	+13.39	+20.58
		Bagdogra (Nilphamari) ...	-3.91	+6.83	+1.41	+5.90	+7.02	+11.48	+28.73
	Julpigoree ...	Julpigoree ...	-4.01	+11.70	+15.40	+5.16	-2.32	+13.04	+38.97
	Cooch Behar	Dinhatta ...	-7.82	+9.51	+1.13	+9.03	+5.17	+12.24	+29.26
		Cooch Behar ...	-7.50	+11.28	+6.73	+24.29	+8.40	+7.28	+50.48
		Miekligunge ...	-3.25	+19.60	+4.51	+15.62	-2.99	+8.80	+42.29
		Matabhanga ...	-5.48	+11.84	+18.94	+21.00	+3.27	+8.90	+58.47
	Darjeeling Hill.	Buxa ...	-10.50	-0.10	+12.87	+7.88	-4.31	+10.72	+16.56
		Siliguri ...	+0.69	+5.72	+36.78	+3.48	+13.73	+7.89	+68.29
		Darjeeling ...	-1.46	+7.30	+28.27	+3.54	-1.33	+4.52	+40.84
		Kalimpong ...	-2.17	+2.53	+25.29	-0.37	+4.18	+7.43	+36.89
NORTH BEHAR.	Purneah ...	Kissengunge ...	-2.91	+10.03	+5.02	+12.26	+2.42	+10.19	+37.01
		Arrareah ...	-0.70	+0.41	+8.10	+6.41	+3.35	+3.10	+20.67
		Purneah ...	-1.05	+4.21	+5.46	+4.72	+7.43	+2.92	+23.69
	North Bha- gulpore.	Maddapore ...	-1.01	+5.28	+11.49	-0.76	-2.92	-1.09	+10.99
		Soopool ...	-1.74	-0.30	+14.97	+4.37	-0.04	-1.22	+16.04
	Durbhunga	Tajpore ...	-0.79	+1.32	+9.68	+0.58	+0.45	-2.27	+8.97
		Durbhunga ...	-0.32	+3.36	+10.56	+4.70	-4.23	-0.45	+13.62
		Madhubani ...	+0.13	+4.18	+13.40	+7.25	-5.63	-0.39	+18.94
	Mozufferpore	Sitamarhi ...	-0.15	+0.53	+7.29	+5.21	-1.95	-0.04	+10.89
		Mozufferpore ...	-0.93	+2.31	+12.08	+5.34	-2.27	-1.31	+15.22
		Hajipore ...	+1.86	+1.04	+7.22	-1.19	+1.19	-2.57	+7.55
	Chumparun	Motihari ...	+4.65	+3.24	+13.34	+0.43	+1.97	+2.90	+26.53
		Bettiah ...	-1.06	+5.45	+9.47	+3.06	-1.83	+1.51	+16.60
	Sarun	Gopalgunge ...	-0.91	+2.22	+2.64	+7.01	+0.03	-2.70	+8.29
		Sewan ...	-0.09	+6.03	+6.07	+4.58	+2.78	-3.00	+16.37
		Chuprah ...	+1.47	+3.39	+7.85	+0.68	-1.67	-0.98	+11.24
SOUTH BEHAR.	Shahabad	Buxar ...	+0.70	+4.88	+3.67	+6.53	+1.03	-1.40	+15.41
		Dehree ...	-1.21	+5.67	+1.68	+1.45	-2.11	-2.20	+3.28
		Bhubooah ...	-1.12	+4.70	+0.18	-1.42	+1.21	-2.80	+0.75
		Sasseram ...	-0.75	+4.93	+1.97	+0.57	-0.25	-2.54	+3.93
		Arrah ...	-0.02	+5.49	+15.82	+2.58	+0.57	+0.35	+24.79
	Gya	Aurangabad ...	-1.29	+4.52	+1.62	+16.89	-2.12	-2.13	+17.49
		Gya ...	-0.35	+5.02	+9.76	+10.34	-1.13	-2.00	+21.64
		Nowadah ...	-0.73	+11.31	+6.18	+3.38	-3.04	-2.07	+15.03
		Jehanabad ...	+0.70	+10.24	+4.02	+1.80	-1.15	-2.91	+12.70
	Patna	Patna ...	+1.65	+1.08	+6.81	+7.38	-2.93	-1.79	+12.20
		Dinapore ...	+1.58	+1.16	+3.14	+4.79	+2.92	-1.03	+12.56
		Behar ...	-1.09	+5.07	+2.52	-1.34	+1.60	-1.95	+4.81
		Barrh ...	-0.39	+2.37	+1.03	+2.69	-0.08	-1.78	+3.84
	Monghyr	Beegooserai ...	+0.25	+4.08	+2.69	+0.26	-1.45	-0.74	+5.09
		Monghyr ...	+2.06	+7.91	+6.91	-0.77	-1.64	-1.45	+13.02
		Jamui ...	-0.93	+12.06	+9.23	-0.15	-2.34	-0.39	+17.48

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
SOUTH BEHAR —concl'd.	South Bha- gulpore.	Bhagulpore ...	+1.80	+2.76	+6.27	+7.82	—2.24	+1.48	+17.89
		Banka ...	+1.74	+1.79	+1.97	—1.53	—4.53	+0.20	—0.36
	Sonthal Per- gunnahs.	Rajmehal ...	—1.75	+3.87	—2.84	+0.97	—1.25	+5.56	+4.56
		Godda ...	+1.20	+4.11	+5.97	—1.65	—5.88	+2.72	+6.47
		Pakour ...	+1.21	+11.98	—0.16	—1.24	—2.46	+7.74	+17.02
		Nya Doomka ...	—1.61	+6.20	+4.62	+5.84	—3.47	+8.47	+20.05
		Deoghur ...	—1.10	+2.53	+3.86	—2.53	—3.19	—0.18	—0.61
		Jamtara ...	—1.29	+12.61	+2.87	—1.97	—1.88	+15.22	+25.56
	Hazaribagh	Pachamba ...	—0.72	+10.36	+3.09	—3.37	—1.92	—0.13	+7.31
		Hazaribagh ...	—0.66	+0.98	+7.08	—2.15	—0.06	—1.96	+3.23
		Semtagurah ...	—1.51	+0.45	+1.36	—3.95	—0.84	—2.11	—6.60
		Mahudi Hills ...	—0.80	—2.82	+5.95	—4.33	—2.50	—0.09	—4.59
		Jhoomrah Hills ...	—2.22	+3.97	+3.63	—6.28	—0.82	—0.93	—2.65
CHUTIA NAGPUR.	Lohardugga	Lohardugga ...	—1.51	+0.37	+2.28	+6.97	—3.23	—0.52	+4.36
		Ranchee ...	+0.91	+0.35	+1.20	—4.51	+1.10	—0.51	—1.46
		Palamow ...	+0.13	+1.36	+5.21	+0.84	—4.10	—2.07	+1.37
	Singbhoom ...	Chyebassa ...	+0.43	+1.03	—4.58	—10.30	—1.20	—1.21	—15.83
	Manbhoom...	Furulia ...	+0.61	+4.21	—0.02	—4.18	—2.21	—0.57	—2.16
		Gobindpore ...	—1.48	+4.74	—1.73	—6.07	—0.83	—0.43	—5.80

TABLE VI.

Percentage variation of the monthly Rainfall of the Sub divisional Rainfall-registering Stations in Bengal, from the normal average rainfall for the months of May to October 1890.

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
ORISSA	Pooree	Pooree ...	-31	+22	+49	+24	+64	+47	+39
		Khurdah ...	+15	+40	+84	-70	+28	+32	+20
		Banpur ...	-8	-8	+28	+11	+89	+43	+29
		False Point ...	-35	+17	-13	-12	+41	+4	+1
	Cuttack	Jagatsingapore ...	-62	+28	+37	-12	+101	+46	+31
		Banki ...	+51	+11	+25	+10	+47	+34	+25
		Cuttack ...	+17	+17	+71	+21	+117	+57	+43
		Kendrapara ...	-5	-45	-5	-31	+81	+23	0
		Jajpore ...	+54	-9	-14	-50	+51	+23	-1
	Balasore	Chandbali ...	-17	+27	-11	-47	+24	+41	-1
		Bhuddruck ...	-12	+65	-40	-47	+38	+151	+11
		Sorah ...	+4	+124	-48	-18	+71	+34	+20
		Balasore ...	+25	+50	-52	-38	+81	+39	+13
		Jellasore ...	+64	+57	-67	-25	+110	+139	-24
		Baripodah ...	-4	+42	-39	-20	+55	+115	+11
	Midnapore...	Contai ...	+128	-1	-74	-53	+29	+167	+7
		Saugor Island ...	+27	-10	-31	-38	0	+140	-2
		Tumlook ...	+94	+42	-15	-55	+46	+69	+9
		Midnapore ...	+9	+84	-57	-55	-5	+4	-12
		Ghatal ...	-12	+28	-15	-73	+11	-40	-21
		Garbeta ...	-16	+53	+12	-77	-0	+40	-8
SOUTH-WEST BENGAL.	24-Pergunnahs.	Diamond Harbour	+31	+4	-29	-16	+12	+131	+5
		Alipore Jail ...	-11	+42	-14	-29	+25	+125	+10
		Barrackpore ...	+8	+33	-30	-34	+25	+153	+4
		Dum-Dum ...	-41	+38	-44	-36	+34	+181	+4
		Baraset ...	+16	+9	-35	-24	+7	+156	+4
		Buseerhat ...	0	+33	-12	-19	-39	+15	+5
	Howrah	Howrah ...	-38	+26	-32	-30	+9	+70	-6
		Mohesreka (Ooloberiah.)	-8	+18	-52	-51	+20	+58	+8
	Hooghly	Serampore ...	+10	+33	-31	-27	+33	+105	+5
		Hooghly ...	-23	+47	-48	-42	+64	+56	-1
		Jehanabad ...	+1	+73	+8	-45	-54	-23	-10
	Burdwan	Culna ...	-36	+116	+5	-45	+67	+6	+16
		Burdwan ...	-41	+124	+59	-42	+33	-21	+26
		Cutwa ...	-36	+120	+14	-52	+71	+95	+28
		Raneegunge ...	-20	+112	-4	-31	+12	+172	+21
	Bankoora	Bankoora ...	+35	+26	+62	-65	+32	+5	+12
		Bishenpore ...	+33	+47	-9	-75	+8	+63	-4
		Maliara ...	-57	+113	+5	-44	+15	+61	+15
		Khatra ...	+5	-20	-30	-68	-25	+54	-28
		Raipur ...	+57	+16	+24	-67	+3	+63	0
	Beerbhoom...	Bh. Soory ...	-65	+62	+66	-34	-12	+78	+18
		Hetampore ...	-69	+61	-3	-52	+12	+222	+9
		Rampore Haut...	-20	+82	+41	+20	+15	+119	+38
	Nuddea	Ranaghat ...	-43	+60	+9	-41	+58	+106	+14
		Kishnaghur ...	-18	+50	+27	-19	+55	+69	+23
		Chooadanga ...	-42	+14	-13	-34	-18	+92	-10
		Meherpore ...	-61	+28	+33	-29	+14	+297	+11
		Kooshtea ...	+4	-9	-2	-25	+2	+48	-2

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
SOUTH- WEST BENGAL— <i>concl'd.</i>	Khoolna ...	Satkhira ...	+41	+11	-21	-7	-21	+58	+1
		Bagirhat ...	-7	+63	+4	-33	-42	+26	+2
		Khoolna ...	-9	+25	+5	-40	-49	+96	-4
	Jessore ...	Narail ...	+23	+38	-13	-19	-74	+28	+12
		Jessore ...	-28	+51	-22	+7	-34	+82	+7
		Jhenidah ...	-32	-15	+108	-32	-18	+30	+4
		Magoora ...	-19	+2	-19	+13	-69	+41	-12
		Bongong ...	-19	+9	-23	-49	-5	+85	-11
	Moorshed- abad.	Kandi ...	-23	+32	+52	+13	+43	+30	+30
		Berhampore ...	-64	+14	+97	+4	-12	+46	+20
		Lalbagh ...	-58	+23	+117	-15	-5	+78	+25
		Azimgunge ...	+5	+50	+32	-27	+4	+39	+14
		Jungipore ...	-80	+46	+6	-9	-29	+142	+3
		Lalgola ...	+25	+15	+56	-11	+11	+125	+27
	Chittagong...	Cox's Bazar ...	-29	+3	+9	-6	-19	-57	-5
		Chittagong ...	-73	-28	+131	+6	-20	-26	+14
	Chittagong Hill Tracts.	Rangamati ...	-23	-22	+12	-10	-37	-47	-16
		Ruma ...	+21	-21	+51	-11	-13	-32	+1
	Backergunge	Patuakhally ...	-24	-19	+1	-11	-36	+55	-10
		Perozepore ...	-17	+12	+13	-44	-36	-6	-11
		Burrisal ...	-7	+11	+9	-36	-35	+48	-5
		Bhola ...	-1	-42	+3	-13	-62	+9	-21
	Noakholly ...	Noakholly ...	+15	-21	+17	-12	-21	+31	-6
		Fenny ...	-1	-13	+13	+12	-43	+23	-2
EAST BEN- GAL.	Furreedpore	Madaripore ...	-35	-42	-13	-38	-75	+117	-28
		Furreedpore ...	-38	-15	-13	+19	-57	+71	-11
		Goalundo ...	-17	-21	-4	-30	-24	+41	-14
	Dacca ...	Munshigunge ...	+34	-15	-13	-18	-72	-20	-19
		Dacca ...	+46	-15	+21	-9	-80	+19	-5
		Naraingunge ...	+44	-8	+16	+16	-79	-24	-2
		Manickgunge ...	-17	+61	-2	+7	-13	+91	+14
	Hill Tipperah...	Agartola ...	+17	+14	+43	-43	-18		
	Tipperah ...	Cemilla ...	+1	-24	+12	-24	-58	+57	-19
		Chandpore ...	+5	-8	-15	-35	-62	-21	-24
		Brahmunberia ...	-7	-14	+48	-26	-58	+14	-10
	Mymensingh	Kishoregunge ...	+9	-3	+7	+13	-35	+18	0
		Atia (<i>Tangail</i>) ...	+115	-14	-1	-32	-49	+83	+3
		Mymensingh ...	-9	-1	+20	-11	-30	+65	0
		Jamalpore ...	+9	+50	+30	-26	+3	+112	+19
		Netrokona ...	-17	+18	+47	+8	-23	+50	+14
NORTH BENGAL.	Pubna ...	Pubna ...	-29	-2	-18	-25	-20	-9	-17
		Serajgunge ...	+42	-13	+14	-22	+68	+66	+18
	Bogra ...	Sherpore ...	-43	+38	+17	+20	+77	+158	+33
		Nowkhilla ...	+31	-4	+31	+8	+22	+114	+24
		Bogra ...	-45	-9	-13	+39	+57	+166	+17
		Panchbibi ...	-24	+111	-18	+12	+77	+227	+47
	Rajshahye ...	Beauleah ...	-34	+62	+97	-36	0	+119	+33
		Nattore ...	+8	+113	+49	-18	+77	+135	+53
		Naogaon ...	+12	+14	+45	-21	+8	+200	+24
	Maldah ...	Maldah ...	+22	+17	-8	+81	+34	+62	+33
		Chanchal ...	-5	-5	+3	+6	+12	+176	+12

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
NORTH BENGAL— concluded.	Dinagapore	Mohadebpore ...	-2	+9	+57	-41	+55	+184	+24
		Churamon ...	+15	+45	+35	+51	+27	+223	+47
		Raigunge ...	-31	+24	+51	+93	+52	+287	+59
		Dinagapore ...	+7	+6	+13	+37	+11	+213	+28
		Baloorghat ...	-6	+23	+36	+43	+87	+149	+49
	Rungpore ...	Bhawanigunge (Gyabanda) ...	+17	+52	+38	+55	+261	+318	+103
		Rungpore ...	-17	+19	-13	-13	+80	+319	+31
		Kurigram ...	-46	+29	-3	+5	+50	+320	+26
		Bagdogra (Nilphamari) ...	-33	+27	+10	+32	+47	+295	+34
	Julpigoree ...	Julpigoree ...	-35	+40	+55	+20	-10	+25	+32
	Cooch Behar	Dinhatta ...	-54	+30	+7	+77	+24	+259	+28
		Cooch Behar ...	-51	+31	+30	+115	+39	+140	+42
		Mickligunge ...	-25	+71	+21	+71	-13	+209	+38
		Matabhanga ...	-42	+37	+89	+94	+14	+17	+50
	Darjeeling Hill	Buxa ...	-51	0	+27	+18	-14	+108	+8
		Siliguri ...	+8	+21	+112	+16	+81	+144	+61
		Darjeeling ...	-19	+3	+93	+13	-8	+74	+36
		Kalimpong ...	-39	+13	+94	-2	+38	+148	+42
	Purneah ...	Kissengunge ...	-45	+65	+30	+78	+18	+326	+52
		Arrareah ...	-12	+3	+50	+48	+25	+93	+32
		Purneah ...	-24	+39	+39	+33	+55	+78	+39
NORTH BEHAR.	North Bhagulpore.	Maddapore ...	-24	+63	+96	-6	-28	-25	+21
		Soopeol ...	-44	-3	+132	+37	-1	-41	+33
	Durbhunga	Tajpore ...	-35	+18	+79	+6	+5	-76	+21
		Durbhunga ...	-12	+43	+88	+42	-45	-16	+29
		Madhubani ...	+4	+50	+124	+69	-57	-16	+42
	Mozufferpore	Sitamarhi ...	-6	+7	+67	+55	-21	-2	+24
		Mozufferpore ...	-39	+34	+110	+52	-28	-46	+37
		Hajipore ...	+92	+16	+59	-11	+17	-69	+18
	Chumparun	Motihari ...	+192	+39	+122	+4	+23	+81	+58
		Bettiah ...	-40	+65	+73	+25	-20	+45	+34
	Sarun ...	Gopalgange ...	-36	+34	+21	+65	+1	-62	+19
		Sewan ...	-5	+90	+52	+42	+32	-79	+37
		Chuprah ...	+102	+63	+72	+7	-23	-34	0
	Shahabad ...	Buxar ...	+71	+103	+33	+65	+14	-44	+41
		Dehree ...	-100	+12	+15	+11	-29	-85	+8
		Bhubooh ...	-100	+9	+1	-12	+18	-90	+2
		Sasseram ...	-67	+99	+17 ⁰	+5	-4	-73	+10
	Gya ...	Arrah ...	-1	+85	+46	+25	+7	+12	+59
		Aurungabad ...	-79	+87	+13	+13	-30	-81	+42
		Gya ...	-28	+82	+83	+98	-16	-86	+55
		Nowadah ...	-38	+211	+52	+21	-44	-83	+38
SOUTH BEHAR.	Jehanabad ...	Jehanabad ...	+43	+209	+33	+14	-20	-88	+31
		Patna ...	+95	+16	+64	+74	-37	-64	+31
		Dinapore ...	+96	+18	+27	+33	+44	-34	+31
		Behar ...	-50	+82	+19	-12	+25	-64	+11
	Patna ...	Barrh ...	-17	+49	+8	+28	-1	-59	+9
		Begooserai ...	+9	+68	+24	+3	-20	-25	+13
		Monghyr ...	+97	+120	+59	-8	-20	-30	+30
		Jamui ...	-44	+190	+75	-1	-32	-11	+41

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
SOUTH BEHAR. —conold.	South Bha- gulpore.	Bhagulpore ...	+68	+34	+54	+73	—28	+38	+40
		Banka ...	+68	+24	+19	—13	—56	+6	—1
	Sonthal Per- gunnahs.	Rajmehal ...	—36	+39	—22	+10	—11	+183	+9
		Godda ...	+34	+61	+53	—14	—62	+93	+14
		Pakour ...	+26	+11	—1	—9	—19	+174	+28
		Nya Doomka ...	—44	+71	+34	+41	—34	+218	+37
		Deoghur ...	—36	+31	+28	—20	—37	—4	—1
		Jamtara ...	—38	+160	+21	—15	—24	+502	+52
	Hazaribagh	Pachamba ... (Giridi.)	—32	+132	+3	—26	—22	—4	+15
		Hazaribagh ...	—38	+12	+54	—16	—1	—60	+7
		Semtagurah ...	—58	+6	+11	—32	—10	—75	—14
		Mahudi Hills ...	—37	—40	+4	—31	—26	—4	—10
		Jhoomra Hills ...	—85	+39	+22	—38	—8	—32	—4
CHUTIA NAGPUR.	Lohardugga	Lohardugga ...	—66	+5	+18	+46	+35	—23	+9
		Ranchee ...	+39	+5	+10	—37	+13	—17	—3
		Palamow ...	+10	+23	+40	+7	—1	—78	+3
	Singbhoom ...	Chyebassa ...	+11	+13	—33	—75	—14	—41	—31
	Manbhoom	Purulia ...	+22	+48	0	—32	—28	—16	—5
		Gobindpore ...	—74	+68	—15	—49	—11	—11	—13

METEOROLOGICAL OFFICE, BENGAL,

The 13th December 1889.

A. PEDLER,

Meteorological Reporter to the Govt. of Bengal.

LIBERALITY OF THE RAJAH OF DASPALLA IN THE TRIBUTARY
STATES OF ORISSA.

GENERAL DEPARTMENT—EDUCATION.

Calcutta, the 29th December, 1890.

RESOLUTION.

READ—

A letter from the Superintendent of Tributary States, Orissa, No. 2111P, dated the 13th November 1890, regarding the offer of the Rajah of the Tributary State of Daspalla to found a scholarship.

Read also—

A letter from the Director of Public Instruction, No. 6900, dated the 14th December 1890, reporting on this subject.

The Superintendent of the Tributary States of Orissa has reported that the Rajah of Daspalla has offered to make over Rs. 1,200 in order to establish, out of the interest of that sum, a scholarship of Rs. 4 a month awardable to a student of the Daspalla State Middle Vernacular School after passing the Middle Vernacular Scholarship Examination, the scholarship being called the "Worsley Scholarship," and being tenable for four years in the Ravenshaw Collegiate School, Cuttack. The Lieutenant-Governor is pleased to accept the offer, and tenders his thanks to the Rajah for his liberality. The Superintendent of the Tributary States will be the administrator of the fund, and the Rajah should be informed that his remittance to the Treasury should cover the market value of the note, plus 5 per cent. to cover incidental charges attendant on the purchase, it being understood that the 5 per cent. deposit is an advance subject to account.

ORDER.—Ordered that a copy of this Resolution be forwarded to the Superintendent of the Tributary States, Orissa, for information and communication to the Rajah of Daspalla, and that a copy be forwarded to the Director of Public Instruction for information.

Ordered also that a copy of this Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 27th December, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
BURDWAN DIV.	1 Burdwan Dec. 27, '90	Nil	Weather—bright and cold. <i>Amun</i> nearly all harvested. <i>Rubbi</i> looking well. Prices of common rice :— <div style="display: flex; justify-content: flex-end; align-items: center;"> <div style="display: flex; flex-direction: column; gap: 2px;"> <div>Srs.</div> <div>Sudder ... 18½</div> <div>Cutwa ... 18½</div> <div>Ranigunge ... 18</div> <div>Culna ... 18½</div> </div> <div style="margin-left: 10px;">} per rupee.</div> </div>
	2 Bankoora „ 27, '90	Nil	Weather—seasonable, but not so cold as it should be. Harvesting of <i>amun</i> nearly finished. <i>Rubbi</i> and sugarcane doing well. Common rice selling at 20 seers per rupee at Sudder and 20½ seers at Bissenpore.
	3 Birbhum „ 27, '90	Nil	Weather—bright and cold. Winter rice now practically gathered in. Price of common rice unchanged at from 19 to 22 seers per rupee.
	4 Midnapur „ 27, '90	Nil	Weather—cool and fair. Reaping of paddy nearly finished; total outturn above average. <i>Rubbi</i> and indigo doing well. Prices of common rice :— <div style="display: flex; justify-content: flex-end; align-items: center;"> <div style="display: flex; flex-direction: column; gap: 2px;"> <div>Srs.</div> <div>Sudder ... 18</div> <div>Contai ... 18</div> <div>Tamluk ... 17½</div> <div>Ghatal ... 17</div> </div> <div style="margin-left: 10px;">} per rupee.</div> </div>
	5 Hooghly „ 27, '90	Nil	Weather—cold. Harvesting of <i>amun</i> paddy nearly finished. Winter crops look healthy. Prices of common rice :— <div style="display: flex; justify-content: flex-end; align-items: center;"> <div style="display: flex; flex-direction: column; gap: 2px;"> <div>Srs.</div> <div>Sudder ... 14</div> <div>Serampore ... 14</div> <div>Jehanabad ... 16½</div> </div> <div style="margin-left: 10px;">} per rupee.</div> </div>
	6 Howrah „ 27, '90	Nil	Weather—seasonable. Harvesting of winter paddy continues; outturn good. Price of common rice 14½ seers per rupee.
<i>Central Districts.</i>			
PRESIDENCY DIV.	7 24 Pergas Dec. 30, '90	Nil	Weather—cold and seasonable. Harvesting of winter rice continues with favourable outturn. <i>Rubbi</i> crops progressing well. Prices stationary.
	8 Nuddea „ 27, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> rice almost over, and that of <i>kalai</i> , <i>mung</i> , and <i>til</i> going on. Prospects fairly good.
	9 Khoolna „ 27, '90	Nil	Weather—seasonable. Reaping of <i>chhotan amun</i> nearly completed, and that of <i>boran</i> has commenced; outturn very good in all parts of the district except in the inundated tracts. Prices are slowly falling. Winter crops doing well except in parts of the Sathira subdivision where they have been damaged by locusts. <i>Boro</i> is being transplanted.
	10 Jessore „ 27, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> in progress. Prospects of winter crops good. Prices of rice stationary.
	11 Moorsshedabad „ 27, '90	Nil	Weather—cold. <i>Amun</i> is still being harvested. Prospects of <i>rubbi</i> favourable.
RAJSHAHY DIV.	12 Dinagepur „ 27, '90	Nil	Weather—seasonable. Prospects of crops good. Price of rice as before.
	13 Rajshahye „ 27, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> paddy and sugarcane in progress. Condition of winter crops good. Tobacco transplantation almost finished. Ganja plants thriving.
	14 Rungpur „ 27, '90	Nil	Weather—cold with east wind. Harvesting of <i>amun</i> still going on. Some damage has been done by insect pest. Prospects on the whole continue good.
	15 Bogra „ 27, '90	Nil	Weather—seasonable. Slight injury to the winter rice crop is reported from thana Shibgunge (north) by caterpillars; but the harvest is going on with good outturn, and the spring crops are doing well. Common rice is selling at 14½ seers per rupee.
	16 Pubna „ 27, '90	Nil	Weather—clear. Rain wanted for mustard; prospects otherwise good.
	17 Darjeeling „ 27, '90	Nil	Weather—cold and misty. Winter rice, <i>marua</i> , and <i>phafar</i> are being harvested. Potato doing fairly well. Prospects good.
	18 Julpigoree „ 27, '90	Nil	Weather—cool and cloudy with morning fogs. Prospects of crops continue satisfactory. Harvesting of <i>kaimanti</i> paddy going on. Price of rice stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—concluded.			
Eastern Districts.			
Dacca Divn.	19 Dacca Dec. 27, '90	Nil	Weather—seasonably cold and fine. <i>Amun</i> and <i>roachia</i> paddy being harvested. Winter crops doing well. Price of common rice from 13 to 18 seers per rupee.
	20 Furreedpur „ 27, '90	Nil	Weather—seasonably cold and bright. Harvesting of <i>amun</i> continues. Prospects of winter crops fair. Coarse rice selling at from 17 to 18 seers per rupee.
	21 Backergunge „ 27, '90	Nil	Weather—seasonable. Prospects of crops fair. New common rice is selling at from 15 to 18 seers per rupee.
	22 Mymensingh „ 27, '90	Nil	Weather—cold. Prospects of crops good. Harvesting of winter rice continues. Rice selling at 16 seers per rupee.
CHITTAGONG DIVN.	23 Chittagong „ 30, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> commenced; very good outturn expected. Vegetable crop thriving. Prices steady.
	24 Noakholly „ 27, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> continues. <i>Rubbi</i> crops progressing. Price of good rice is varying from 15 to 19 seers and coarse rice from 16 to 21 seers per rupee in the different parts of the district.
	25 Tipperah „ 27, '90	Nil	Weather—seasonable. Cutting of <i>amun</i> paddy over. Cold-weather crops prospering.
	26 Chittagong Hill Tracts. 25, '90	Nil	Weather—seasonable; very cold throughout the week. Harvesting of cotton nearly at an end. Gathering of late rice continues. Mustard, tobacco, and other cold-weather crops progressing. Common rice is being sold at 11 seers 6½ chittacks per rupee.
BEHAR.			
PATNA DIVN.	27 Patna „ 27, '90	Nil	Weather—cold. Harvesting of paddy and <i>jowar</i> in progress. <i>Rubbi</i> crops growing well, but rain wanted. Prospects of poppy continue good. Prices of food-grains show a tendency to fall.
	28 Gya „ 27, '90	Nil	Weather—cold with west wind. Prospects of <i>rubbi</i> and poppy continue good. Harvesting of paddy about to be completed. Prices of food-grains stationary.
	29 Shahabad „ 27, '90	Nil	Weather—bright and cold. Prospects of crops good.
	30 Durbhunga „ 27, '90	Nil	Weather—cool: west winds prevailing. Harvesting of rice still going on. <i>Rubbi</i> crops look promising. Poppy and tobacco doing well. Prices remain stationary.
	31 Mozufferpur „ 27, '90	Nil	Weather—cool. Harvesting of paddy in progress. <i>Rubbi</i> crops look promising. Prospects of poppy crop continue good.
	32 Sarun „ 27, '90	Nil	Weather—colder than the preceding week. Harvesting of paddy completed. Prospects of <i>rubbi</i> and poppy crops continue favourable.
BHAGULPORE DIVN.	33 Champaran „ 27, '90	Nil	Weather—very cold: occasionally cloudy. Prospects of all standing crops, including poppy, are very good, though a shower of rain will be beneficial to them. Harvesting of paddy approaching completion.
	34 Monghyr „ 27, '90	Nil	Weather—seasonable: cool and clear. Harvesting of winter rice nearly completed. <i>Rubbi</i> crops promising.
	35 Bhagulpore „ 27, '90	Nil	Weather—seasonable. Harvesting of paddy crop going on. Standing crops promising.
	36 Purneah „ 27, '90	Nil	Weather—cold and clear. <i>Aghani</i> harvesting continues; outturn nearly 16 annas. <i>Rubbi</i> crops progressing favourably.
	37 Maldah „ 27, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> in progress. Other crops doing well. <i>Kalai</i> gathering going on. Price of common rice has fallen.
	38 Sonthal Perghs. „ 27, '90	Nil	Weather—seasonable. Paddy harvesting still continues. Prospects of <i>rubbi</i> are excellent.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIVN.	39 Cuttack Dec. 27, '90	Nil	Weather—seasonable. Harvesting of <i>guru sarad</i> rice nearly completed in the Jajpur subdivision. <i>Rubbi</i> crops doing well. Planting of tobacco continues. General prospects good.
	40 Pooree „ 25, '90	Nil	Weather—seasonable. <i>Sarad</i> crop is being harvested. <i>Dalua</i> crops are being sown. <i>Rubbi</i> crops (mustard and <i>kulthi</i>) are in ear. Price of common rice from 21 to 28 seers per rupee.
	41 Balasore „ 27, '90	Nil	Weather—warm for the time of year. The late winter rice crop is still being harvested.
CHOTA NAGPORE.			
South-West Frontier Agency.			
CHOTA NAGPORE DIVN.	42 Hazaribagh Dec. 27, '90	Nil	Weather—seasonable. Harvesting of winter rice finished. Rain wanted for <i>rubbi</i> crops. Poppy promising.
	43 Lohardugga „ 27, '90	Nil	Weather—cold. Harvesting of winter rice nearly finished. Rain wanted for <i>rubbi</i> crops.
	44 Singhbhum „ 27, '90	Nil	Weather—seasonable. Winter crops doing well. Paddy nearly all harvested.
	45 Manbhum „ 27, '90	Nil	Weather—seasonable. Harvesting of paddy nearly over; outturn 14 annas. <i>Rubbi</i> crops are being gathered. Rice selling at from 20 to 28 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
 The 30th December, 1890.

P. NOLAN,
 Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.	STATION OBSERVATIONS.																
	DISTRICT.	Representative station.	AIR PRESSURE.			WIND.		TEMPERATURE.									
			Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M. temperature.	
ORISSA.	Pooree	Pooree	30'098	30'111	—	N.-Ely.	182	82'6	21, 23, 24 Dec.	60'8	25th Dec.	81'7	66'4	74'1	—	70'8	
		Gopalpore	30'090	30'112	+0'23	NNW	206	83'7	23rd	61'9	26th	81'6	67'0	74'3	+5'6	73'5	
		False Point	30'091	30'114	+0'08	N	144	84'9	23rd	53'5	26th	80'2	60'7	70'5	+5'1	68'5	
	Cuttack	Cuttack	30'045	30'129	+0'25	N.-Ely. & Calm	26	87'4	23rd	58'8	25, 26	85'0	64'6	74'9	+6'1	68'7	
Balasore	Balasore	30'076	30'138	+0'24	Variable	44	83'4	23rd	53'5	25th	80'3	63'4	69'4	+5'2	64'2		
South-West Midnapore } South 24-Pergunnahs }	Saugor Island	30'094	30'121	+0'13	NNE	199	78'2	20, 23	53'8	26th	76'2	59'6	67'9	+2'4	63'9		
	Midnapore	29'975	30'133	+0'15	N	174	84'3	23rd	51'2	26th	80'9	56'3	68'6	+3'3	62'3		
	24-Pergunnahs } Howrah } Hooghly }	Calcutta	30'104	30'127	+0'19	Calm	31	81'0	23rd	51'8	26th	76'8	55'6	66'2	+2'1	60'6	
SOUTH-WEST BENGAL.	Burdwan	Burdwan	30'031	30'138	+0'29	N.-Wly. & Calm	40	81'0	23rd	52'8	26th	77'6	55'4	66'5	+1'3	59'8	
		Bankoora	29'792	30'114	+0'05	W	56	81'6	23rd	51'4	25th	78'3	55'4	66'9	+2'6	60'3	
	Beerbhoom } West Burdwan }	Raneegunge	29'787	30'139	+0'18	NW	48	81'3	23rd	51'0	25th	77'7	55'3	66'5	+2'1	59'1	
Moorshedabad	Berhampore	30'053	30'124	+0'11	North-Westerly	39	77'4	23rd	52'2	24th	75'2	54'6	64'9	+0'9	59'2		
	Krishnaghur	30'069	30'121	+0'23	North-Westerly	70	80'3	23rd	48'5	26th	77'3	51'8	64'5	+0'2	60'3		
	Jessore } Khoolna }	Jessore	30'083	30'118	+0'19	Calm	45	79'2	23rd	40'9	24th	76'3	53'8	65'9	+0'4	60'3	
Chittagong	Chittagong	30'004	30'099	+0'20	North-Westerly	42	78'7	24th	54'4	21st	76'6	57'8	67'2	+0'8	59'7		
EAST BENGAL.	Chittagong Hill Tracts	Domagiri	Observations not received.														
	Backerskunge	Barrisal	30'090	30'103	+0'37	Calm	40	78'3	23rd Dec.	52'1	23th	76'2	56'0	66'1	+2'0	61'4	
	Noakholly	Noakholly	30'090	30'106	+0'37	N	101	78'0	23 & 24	50'3	26th	76'9	52'6	64'8	—0'3	62'0	
	Furreedpore	Furreedpore	30'016	30'118	+0'31	Calm	37	74'3	22nd	52'5	26 & 26	73'7	54'1	63'9	+0'5	59'7	
Dacca	Dacca	30'069	30'093	+0'05	NW	68	78'6	23rd	50'2	24th	76'7	55'1	65'9	—0'2	59'9		
Commillah	Commillah	30'064	30'102	+0'19	W	15	78'4	23rd	49'6	24th	77'2	52'0	64'6	+0'2	59'8		
Mymensingh	Mymensingh	30'040	30'101	+0'16	Calm	37	75'8	25th	50'3	24, 25	74'8	52'5	63'7	+0'6	57'7		
Bogra	Bogra	30'026	30'093	+0'32	W & Calm	36	75'3	20, 23	?	?	74'5	?	?	?	58'1		
Pubna	Serajgunge	30'049	30'098	+0'14	W	18	76'5	23rd	49'0	24th	75'3	51'2	63'2	—0'1	58'3		
Rajshahye	Rampore Beahleah.	30'036	30'110	+0'22	North-Westerly	44	75'1	23rd	50'7	24th	72'3	53'0	62'6	+0'3	59'0		
Maldah	Maldah	30'052	30'129	—	NW	87	75'5	21st	49'7	26th	74'4	50'5	62'5	—	57'7		
Dinapore	Dinapore	29'976	30'106	—0'07	SW	38	76'1	22, 23	49'7	26th	75'2	51'0	63'1	+1'0	55'9		
Rungpore	Rungpore	29'987	30'121	+0'08	North-Easterly	18	75'4	21st	49'1	26th	74'7	50'7	62'7	+1'2	58'6		
Julpigoree } Cooch Behar }	Julpigoree	29'806	30'113	—0'05	?	26	75'7	25th	50'1	26th	73'9	52'2	63'1	+1'1	57'0		
Darjeeling Hill Tracts	Darjeeling	22'998	—	—0'35	S.-Ely. & Calm	83	48'9	th	33'7	26th	46'1	35'1	49'6	—0'9	30'8		
	Purneah } North Bhagulpore }	Purneah	29'986	30'124	+0'11	Calm	55	75'7	23rd	43'5	24th	73'4	48'2	60'8	0	54'3	
	Mozufferpore	Mozufferpore	29'923	30'117	—	WSW	54	75'4	23rd	47'0	24th	72'9	50'1	61'6	—	55'0	
Durbhunga	Durbhunga	29'948	30'128	+0'02	Westerly	77	75'9	23rd	48'9	24th	73'4	51'0	62'5	+0'4	56'5		
Champaran	Mothari	29'890	30'133	+0'28	WNW	134	75'8	22nd	44'2	24th	73'6	47'4	60'5	+1'3	55'6		
Chupra	Chupra	29'910	30'118	+0'16	SW	83	75'8	23rd	47'1	24th	73'4	50'7	62'1	+0'6	54'9		
Bahabad	Dehree	?	?	?	?	?	70'3	22nd	46'8	25th	73'7	53'4	64'6	+3'7	60'5		
	Buxar } Arrah }	?	?	?	WNW } Westerly }	68 } 23 }	75'4 } 76'8 }	23rd } 23rd }	47'4 } 45'9 }	24th } 24th }	73'8 } 73'9 }	53'5 } 50'4 }	63'9 } 62'2 }	+1'7 } +1'6 }	77'9 } 66'2 }		
	Gya	Gya	29'756	30'169	+0'27	S	122	77'6	22nd	47'9	25th	74'5	53'7	64'1	+2'2	58'2	
Patna	Bankipore	29'941	30'138	—0'04	W	72	74'7	20 & 22	48'4	24th	73'0	51'4	62'2	+1'6	56'0		
South Bhagulpore } Monghyr }	Bhagulpore	29'947	30'119	+0'01	Calm	17	76'8	23rd	48'0	25th	74'2	49'8	62'0	+1'2	57'2		
	Sonthal Pergunnah	Doomka	29'602	30'137	+0'11	Calm	55	79'1	23rd	47'3	24th	75'6	51'0	63'3	+1'3	57'7	
	Hazaribagh	Hazaribagh	28'051	30'169	+0'15	W	105	75'1	22nd	47'2	24th	71'4	52'0	61'7	+2'3	57'3	
Lohardugga } Manbhoom }	Ranchee	27'914	30'124	+0'14	Westerly	122	78'1	22nd	44'9	25th	74'4	50'8	62'0	+3'7	59'3		
Singbhoom	Chyabassa	29'337	30'142	+0'49	W	20	84'3	23rd	50'7	25th	6'6	56'2	68'4	+5'0	62'1		

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last year. The humidity of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 9 and an overcast sky by 10. The numbers are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional stations for the period in question during the past stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 26th of December 1890.

					DISTRICT OBSERVATIONS.														METEOROLOGICAL OR DIVISION.
Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.								Representative station.	DISTRICT.					
			Mean for district.	Normal mean.	Since 1st of month.			Since 15th May 1890.			Average number of rainy days.	Normal number of rainy days.							
					Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.									
82	1.1	Nil	Nil	0.17	0.75	0.81	-0.05	66.53	55.51	+11.02	0.0	0.2	Pooree	Pooree	ORISSA.				
83	0.1	Nil											Gopalpore	Pooree					
86	3.0	Nil											False Point	Pooree					
75	3.0	Nil	Nil	0.13	0.34	0.55	-0.21	63.98	51.53	+12.45	0.0	0.2	Cuttack	Cuttack					
84	0	Nil	Nil	0.08	0.31	0.28	+0.03	61.57	52.92	+8.65	0.0	0.1	Balasore	Balasore					
88	5.1	Nil	Nil	0.05	0.05	0.34	-0.29	66.34	61.95	+4.39	0.0	0.1	Saugor Island	South-West Midnapore					
72	1.1	Nil	Nil	0.08	0.20	0.25	-0.05	50.20	51.07	-0.87	0.0	0.1	Midnapore	South-West Midnapore					
85	1.4	Nil	Nil	0.07	0.20	0.30	-0.04	55.42	51.17	+4.25	0.0	0.1	Calcutta	24-Pergunnahs					
74	1.4	Nil	Nil	0.05	0.07	0.18	-0.11	61.48	46.31	+15.17	0.0	0.1	Bardwan	Howrah					
80	1.9	Nil	Nil	0.12	Nil	0.28	-0.28	52.02	52.21	-0.19	0.0	0.1	Bankoora	Hooghly					
78	0.7	Nil	Nil	0.03	0.13	0.14	-0.01	64.06	51.75	+12.31	0.0	0.1	Raneegunge	Bardwan					
83	1.7	Nil	Nil	0.01	Nil	0.14	-0.14	60.25	50.04	+10.21	0.0	0.1	Berhampore	West Bardwan					
81	2.1	Nil	Nil	0.05	0.03	0.14	-0.11	55.05	48.77	+6.29	0.0	0.1	Krishnagur	Moorshedabad					
88	0.6	Nil	Nil	0.04	0.01	0.26	-0.25	53.51	52.25	+1.26	0.0	0.1	Jessore	Nuddea					
89	1.1	Nil	Nil	0.05	0.39	0.56	-0.17	119.45	113.14	+6.31	0.0	0.1	Chittagong	Jessore					
			Nil	0.08	0.02	0.54	-0.52	73.34	80.34	-7.00	0.0	0.1	Demagiri	Khosina					
37	0	Nil	Nil	0.03	0.19	0.42	-0.23	63.35	76.29	-7.85	0.0	0.1	Barrisal	Chittagong Hill Tracts					
83	0	Nil	Nil	0.02	Nil	0.81	-0.81	97.88	106.52	-8.64	0.0	0.1	Noakholly	Backergunge					
80	0	Nil	Nil	0.02	Nil	0.12	-0.12	45.42	54.99	-9.57	0.0	0.1	Noakholly	Noakholly					
88	1.6	Nil	Nil	0.03	Nil	0.24	-0.24	58.19	60.08	-1.89	0.0	0.1	Furzedpore	Furzedpore					
88	1.3	Nil	Nil	0.03	0.08	0.38	-0.30	60.19	68.03	-7.84	0.0	0.1	Dacca	Dacca					
90	1.3	Nil	Nil	0.01	Nil	0.14	-0.14	75.53	68.94	+6.59	0.0	0.1	Commillah	Tipperah					
81	0	Nil	Nil	Nil	Nil	0.14	-0.14	78.99	57.04	+21.95	0.0	0.0	Mymensingh	Mymensingh					
90	0.4	Nil	Nil	0.02	Nil	0.11	-0.11	54.95	52.91	+2.04	0.0	0.1	Bogra	Bogra					
82	0.6	Nil	Nil	0.01	Nil	0.13	-0.13	75.86	52.94	+22.92	0.0	0.1	Serajung	Pubna					
89	0	Nil	Nil	Nil	Nil	0.08	-0.08	63.14	53.67	+9.47	0.0	0.0	Rampore	Rajshahye					
90	0	Nil	Nil	Nil	Nil	0.16	-0.16	81.74	56.41	+25.33	0.0	0.0	Maldah	Maldah					
91	0	Nil	Nil	0.01	Nil	0.15	-0.15	106.61	73.33	+33.28	0.0	0.1	Dinagore	Dinagore					
94	0	Nil	Nil	Nil	Nil	0.14	-0.14	154.51	109.74	+44.77	0.0	0.0	Rungpore	Rungpore					
90	3.7	Nil	Nil	0.07	0.14	0.26	-0.12	165.80	120.14	+45.66	0.0	0.1	Jalpigoree	Jalpigoree					
92	0	Nil	Nil	Nil	Nil	0.09	-0.09	80.67	58.14	+22.53	0.0	0.0	Darjeeling	Cooch Behar					
91	0.9	Nil	Nil	Nil	Nil	0.08	-0.08	52.57	42.84	+9.73	0.0	0.0	Purneah	Darjeeling Hill Tracts					
94	0	Nil	Nil	Nil	Nil	0.08	-0.08	57.63	44.04	+13.59	0.0	0.0	Mozufferpore	Purneah					
86	1.4	Nil	Nil	0.02	Nil	0.19	-0.19	68.47	46.08	+22.39	0.0	0.1	Durbhunga	North Bhagulpore					
89	0	Nil	Nil	0.01	Nil	0.15	-0.15	63.69	42.01	+21.68	0.0	0.1	Motihari	Chumbarun					
76	2.1	Nil											Chupra	Sarun					
76	2.3	Nil	Nil	0.04	0.02	0.31	-0.29	49.61	39.62	+9.99	0.0	0.1	Dehree	Shahabad					
83	1.1	Nil											Buxar	Shahabad					
74	2.4	Nil	Nil	0.05	0.02	0.23	-0.21	56.95	41.04	+15.91	0.0	0.1	Arrah	Shahabad					
80	1.1	Nil	Nil	0.01	Nil	0.13	-0.13	48.10	40.74	+7.36	0.0	0.1	Gya	Gya					
80	0.9	Nil	Nil	Nil	Nil	0.08	-0.08	52.25	42.62	+9.63	0.0	0.0	Bankipore	Patna					
77	0	Nil	Nil	0.02	0.06	0.10	-0.04	63.71	50.37	+13.34	0.0	0.1	Bhagulpore	South Bhagulpore					
74	4.0	Nil	Nil	0.07	0.01	0.26	-0.25	43.46	49.46	-6.00	0.0	0.2	Deomka	Monghyr					
75	2.7	Nil	Nil	0.12	Nil	0.32	-0.32	47.61	47.73	-0.12	0.0	0.2	Hazaribagh	South Bhagulpore					
			Nil	0.07	0.14	0.10	-0.05	41.67	46.42	-4.75	0.0	0.1	Sanchi	Deomka					
70	0.0	Nil	Nil	0.14	0.50	0.38	+0.21	34.53	60.85	-16.32	0.0	0.2	Chyebassa	Sonhai Pergunnahs					
														Hazaribagh	Chota Nagpur.				
														Manbhoom					
														Singbhoom					

ten years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.
denoting cloud amount represents the per cent of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
ten years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 26th of December 1890.

Meteorological division.	District.	Station.	RAINFALL.						TOTAL		Total rain- fall since 1st of month.	Average total rain- fall from 1st of month.	Total rain- fall since 18th May 1890.	Average rainfall from 15th May to date.
			Saturday 24th December.	Sunday 25th December.	Monday 26th December.	Tuesday 27th December.	Wednesday 28th December.	Thursday 29th December.	Friday 30th December.	Number of rainy days.					Rainfall in week.
ORISSA	Pooree	Pooree	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.14	70.44	50.68
		Khurda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.39	0.52	66.55	50.23
		Banpur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.17	1.15	61.02	50.38
		False Point	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.82	0.82	66.10	64.23
		Gop	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.95	64.23
		Satpara	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.72	45.72
	Cuttack	Pipili	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75.90	75.90
		Jagatsingpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.67	40.70
		Banki	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	67.79	45.06
		Cuttack	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.14	58.01
		Kondrapara	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.15	32.71
		Jalpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	53.15	52.80
	Balasore	Dharmasala	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.15	51.15
		Salipore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.15	52.15
		Chandbali	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	52.06	52.06
		Bhuddrun	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	55.25	51.20	
		Sorah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	60.81	50.78	
		Balasore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	64.30	57.41	
SOUTH-WEST BENGAL.	Midnapore	Jellalore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.18	61.18
		Haripodah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.96	53.58
		Contai	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	67.81	60.96
		Sanger Island	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.12	60.80
		Tumlook	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	58.50	50.97	
		Midnapore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	47.47	48.11	
	24-Pargunnah	Ghntal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.61	55.96
		Kutrahaty	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.29	50.29
		Garbetta	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.23	46.23
		Diamond Har- bour	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.13	57.77
		Canning Tow	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	66.71	66.71
		Alipore Jail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	67.96	54.62
	Howrah	Barrackpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	61.31	45.86	45.86
		Dum-Dum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	56.34	51.10	51.10
		Barasat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.41	40.34
		Buseerhat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87	60.81	55.41	40.34
		Howrah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.31	51.50	50.41
		Mohesra	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.19	50.76	51.46
Hooghly	(Doloberia)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.76	51.46	
	Serampore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.21	49.71	
	Hooghly	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.20	52.19	47.70	
	Jehanabad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	51.67	54.65	
	Burdwan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.81	43.86	
	Culina	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.21	65.53	47.69	
Bankura	Burdwan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.57	37.35	
	Culina	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.10	60.72	48.79	
	Raneesunge	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.12	45.21	45.21	
	Manikur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.76	51.14	
	Bankura	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.23	50.95	51.03	
	Bishenpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	50.28	48.33	48.33	
Beerbhoom	Maliara	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.00	56.77	
	Khatra	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	50.37	50.37	
	Indas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	66.94	66.94	
	Kotalpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.11	55.11	
	Anda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.75	63.75	
	Gangajalhati	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53.29	53.29	
Nuddea	Raipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.74	62.74	
	Sonamukhi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.74	62.74	
	Bh. Soory	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.11	62.50	53.23	
	Hetampore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.11	60.42	53.76	
	Rampore Hau	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	72.50	50.03	
	Hotpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	57.63	57.63	
Khoolna	Murari	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	66.46	66.46	
	Ranaghat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.53	46.53	
	Kishnagur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.08	61.73	45.43	
	Chowdanga	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.08	50.70	
	Meherpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.13	58.58	47.13	
	Kooshia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	53.09	53.09	
Jesore	Satkira	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.61	55.50	
	Bagirhat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.36	62.51	60.61	
	Khoolna	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.32	62.88	54.25	
	Yakipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.08	70.08	
	Rampal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00	65.78	65.78	
	Narail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.50	45.47	
Moorkhadabad	Jessore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.25	59.32	53.72	
	Jhenidah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.21	54.16	52.07	
	Magorah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.15	43.44	48.75	
	Bongong	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.29	61.29	
	Kandi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.31	64.89	49.01	
	Berhampore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.19	50.27	50.27	
Chittagong	Lalbagh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.17	50.27	50.27	
	Azimkunge	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.27	50.60	
	Jungipore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.11	51.83	48.64	
	Lalgaia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.12	65.35	65.35	
	Jiagunge	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.29	61.29	
	Akhirgung	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.29	61.29	
Chittagong Hill Tracts.	Patunkhally	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.29	61.29	
	Perozepore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.29	61.29	
	Burrisai	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.29	61.29	
	Bnola	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.29	61.29	
	Cox's Bazar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	129.87	133.04	
	Kutubdia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	114.00	114.00	
Backergunge	Satkanya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81.41	81.41	
	Rangmati	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	68.96	68.96	
	Roma	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.71	77.71	
	Patunkhally	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.21	50.89	
	Perozepore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.91	62.91	
	Burrisai	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.01	65.01	

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 26th of December 1890—contd.

Meteorological Division.	District.	Station.	RAINFALL							TOTAL		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall from 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 20th December.	Sunday, 21st December.	Monday, 22nd December.	Tuesday, 23rd December.	Wednesday, 24th December.	Thursday, 25th December.	Friday, 26th December.	Number of rainy days.	Rainfall of week.				
EAST BENGAL—contd.	Gournadi	Baughal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	42'05	?
		Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	73'20	?
		Nonaholly	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'60	103'34	107'16
		Harishpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1'00	103'40	105'75
	Furzedpore	Ramganj	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'80	?	170'31	?
		Madripore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	65'28	?
		Furzedpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'10	41'01	53'27	
		Isalundo	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'10	43'45	57'41	
	Dacca	Munshikunga	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'34	57'78	60'00	
		Dacca	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'10	54'58	58'19	
		Narainkunga	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'28	60'71	61'51	
		Manickgunga	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'12	59'71	40'02	
	Hill Tippera	Joydebpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	60'26	?	
		Agartola	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'38	67'24	61'02	
		Comilla	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'45	67'24	73'30	
		Chandpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'40	56'78	74'68	
	Tipperah	Brahmunberia	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'25	54'94	61'20	
		Ramchandrapore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	76'11	?	
		Nasirnagar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	34'81	?	
		Daudkandi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	30'44	?	
	Mymensingh	Kasba	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	51'71	?	
		Laksham	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	65'55	?	
		Kishorekunda	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'15	68'87	60'32	
		Atia (Tangai)	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'09	56'61	54'95	
	Mymensingh	Mymensingh	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'12	78'05	73'32	
		Jamalspore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'20	79'16	64'69	
		Netrokona	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'17	96'54	80'53	
		Subornakhali	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	58'25	?	
	Sherepore	Durgapore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	118'67	?	
		Sherepore Town	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	67'41	?	
		Dewangan	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	72'59	?	
		Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?	
NORTH BENGAL.	Pubna	Pubna	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'11	46'08	53'47	
		Serajkunda	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'10	63'81	52'29	
	Bogra	Sherepore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'18	77'86	57'95	
		Nowkhilla	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'12	69'79	53'88	
		Bogra	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'07	79'92	60'51	
		Panchbibi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'20	91'46	55'48	
	Raishakya	Beaulah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'10	72'29	52'50	
		Vattore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'10	88'84	54'29	
		Naogaon	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'17	66'15	53'16	
		Lalpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	62'38	?	
	Maldah	Maldah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	49'04	?	
		Chanchal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'14	64'65	51'13	
		Gajol	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'04	69'62	56'17	
		Sibganj	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	69'66	?	
	Dinagopore	Mohadebpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'17	67'94	56'12	
		Churamon	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'16	80'28	52'23	
		Raigunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'17	82'76	57'75	
		Dinagopore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'08	86'80	63'61	
	Rangpore	Balacorchal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'24	81'01	52'26	
		Thakoorgaon	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	107'04	?	
		Banwarighat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'14	123'00	62'23	
		(Gyabanda)	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'08	96'56	74'14	
	Rangpore	Rangpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'17	93'59	72'83	
		Kurigram	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?	
		Bagdokra	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'21	111'24	84'03	
		(Nulphamari)	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	97'52	?	
	Jaipigore	Jaipigore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'10	156'28	116'33	
		Alipore Dooar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	187'47	?	
		Fallacotta	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	140'70	?	
		Debiyani	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	115'70	?	
	Cooch Behar.	Bhagatpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	132'64	?	
		(Nagrakata)	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'22	128'05	94'69	
		Dinhat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'11	169'37	118'10	
		Cooch Behar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'19	146'36	105'11	
	Darjeeling Hill.	Mickligunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'13	171'61	112'06	
		Masobhanga	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'36	211'33	191'58	
		Bura	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'47	179'39	192'41	
		Siliguri	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'08	150'24	197'54	
	North Bhagalpor	Jaipigore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'26	123'00	77'50	
		Kalimping	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'30	123'00	?	
		Kurseong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'31	193'09	?	
		Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?	
NORTH BENGAL.	Purneah	Kissengunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'10	105'38	69'74	
		Arrah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'08	83'78	63'24	
		Purneah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'15	89'36	61'14	
		Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?	
	Gondwara	Gondwara	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	100'45	?	
		Balarampore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	63'05	?	
		Maitari	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	118'65	?	
		Kataganj	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'05	61'61	49'07	
	North Bhagalpor	Maddapore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'09	63'21	47'71	
		Sopool	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	49'30	?	
		Protaganj	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?	
		Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?	
	Durbhunga	Tajpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'07	51'70	43'40	
		Durbhunga	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'12	58'56	45'27	
		Madhuasahi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'06	62'61	44'20	
		Rahaga	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	52'58	?	
	Mozafferpore	Roshera	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	50'42	?	
		Sitamarhi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'08	52'06	42'06	
		Mozafferpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0'08	56'13	44'13	
		Haipore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	48'00	41'36	
	Muzafferpore	Para	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	70'81	?	
		Mahua	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	44'79	?	
		Siukur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	53'18	?	
		Pupri	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	50'10	?	

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 26th of December 1890—concl.

Meteorological Division.	District.	Station.	RAINFALL.							Total		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 20th December.	Sunday, 21st December.	Monday, 22nd December.	Tuesday, 23rd December.	Wednesday, 24th December.	Thursday, 25th December.	Friday, 26th December.	Number of rainy days.	Rainfall in week.				
NORTH BHAR	Chumpana...	Motihari	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.13	72.06	44.14
		Bettiah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.22	64.89	48.04
		Bagaha	Nil	Nil	Nil	Nil	Nil	Nil	0.04	1	0.04	0.04	?	?	?
SOUTH BHAR	Sarun	Burhura	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	53.36	?
		Gopalgunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.17	52.07	42.62
		Sawan	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	52.84	43.25
	Shahabad	Chapra	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.14	48.27	40.12
		Buxar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.19	52.47	41.77
		Dehra	Nil	Nil	Nil	Nil	Nil	Nil	0.04	?	0.04	0.04	0.57	43.18	39.87
		Bhabooah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.27	41.11	40.65
		Sasaram	Nil	Nil	Nil	Nil	Nil	Nil	0.08	?	0.08	0.08	0.27	44.27	40.19
		Arrah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.20	65.96	39.08
		Mohanah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	36.07	?
	Gya	Aurungabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.32	59.49	42.29
		Gya	Nil	Nil	Nil	Nil	Nil	Nil	0.09	?	0.09	0.09	0.22	60.12	41.05
		Nowadah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.18	54.84	39.35
		Jehanabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.16	53.32	40.39
		Arwal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	55.43	?
		Daudnagar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	29.85	?
MUTTA NAG-PUR.	Patna	Sherrghati	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	36.81	?
		Rajauli	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	45.09	?
		PakriBarawan	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	54.24	?
	Istna	Patna	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.13	50.02	41.58
		Dumapore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.14	52.13	40.54
		Rehar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.11	46.94	41.29
		Barrh	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.12	43.25	39.32
		Sickram	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	58.33	?
	Monghyr	Hilsa	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	50.24	?
		Begonserai	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.07	44.29	39.02
		Monghyr	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.07	51.84	45.90
		Jamui	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.07	60.29	42.31
	South Bhagulpore.	Gogri	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	70.44	?
		Sheikpura	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	47.76	?
		Bhagulpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.08	59.77	41.73
	Sonthal Pergunnahs.	Barka	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.08	42.11	43.25
		Kriging	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	62.06	?
		Bongaon	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
		Rajmehal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.06	56.86	51.86
		Godda	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.10	59.75	43.78
		Pakour	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.08	74.16	55.00
MUTTA NAG-PUR.	Hazaribagh	Nya Doomba	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.14	74.36	51.65
		Deogbur	Nil	Nil	Nil	Nil	Nil	Nil	0.08	?	0.08	0.08	0.08	49.51	40.59
		Jamtara	Nil	Nil	Nil	Nil	Nil	Nil	0.16	?	0.16	0.16	0.17	76.59	47.84
		Mohapata	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	48.81	?
		Namatal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	32.28	?
		Pachumbha (Giridi)	Nil	Nil	Nil	Nil	Nil	Nil	0.02	?	0.02	0.02	0.15	55.37	40.93
	Lohardugga	Hazaribagh	Nil	Nil	Nil	Nil	Nil	Nil	0.05	?	0.05	0.05	0.27	50.02	49.39
		Semtaurab	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.31	38.94	45.08
		Mahudi Hills	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.30	43.02	43.44
		Jhoomra Hills	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.31	56.80	59.91
		Barhi	Nil	Nil	Nil	Nil	Nil	Nil	0.13	?	0.13	0.13	?	50.37	?
		Chatra	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	47.08	?
	Singbhoom	Karagdeha	Nil	Nil	Nil	Nil	Nil	Nil	0.07	?	0.07	0.07	?	57.41	?
		Ranghar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	50.24	?
		Lohardugga	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.52	53.19	49.89
		Ranchi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.28	43.57	51.45
		Palscow	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.18	44.27	42.47
		Silli	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	43.85	?
MUTTA NAG-PUR.	Maubhoom	Balumat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	43.62	?
		Hosseinabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	41.75	?
		Garswah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	39.30	?
		Chyobassa	Nil	Nil	Nil	Nil	Nil	Nil	0.50	?	0.50	0.50	0.38	34.43	51.00
		Chakradhar-pore.	Nil	Nil	Nil	Nil	Nil	Nil	0.05	?	0.05	0.05	?	24.88	?
		Ghatilla	Nil	Nil	Nil	Nil	Nil	Nil	0.42	?	0.42	0.42	?	51.88	?
	Singbhoom	Baharagura	Nil	Nil	Nil	Nil	Nil	Nil	1.12	?	1.12	1.12	?	52.05	?
		Parulia	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.23	44.22	48.53
		Gobindpore	Nil	Nil	Nil	Nil	Nil	Nil	0.30	?	0.30	0.30	0.16	39.13	44.47
		Raghunath-pore.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	62.26	?
		Barrabhoom	Nil	Nil	Nil	Nil	Nil	Nil	0.07	?	0.07	0.07	?	44.22	?
		Jhaida	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	64.71	?
		Chas	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	50.15	?

Explanation.—..... indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 30th December 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 26TH OF DECEMBER 1890.

It is desirable to notice that this is the last weekly meteorological report which will deal with the weeks ending on Fridays, and that in future, commencing with the week ending on January 3rd, the meteorological week will be considered to end on Saturdays at 8 A.M. The system with the week ending on Fridays has been in force for nearly eight years, since the first week of April 1883, but at the suggestion of the Government of India it is now to be changed, as above stated, to bring the Bengal weekly report into uniformity with the weekly rainfall reports to be published in all other provinces of India.

The week under review has been one in which the changes have been somewhat considerable, though fine weather has prevailed throughout. On the first day of the week pressure was in slight excess of the normal, while temperature was exceedingly high in the western districts, where at some stations the mean temperatures were 5° to 7° above the normal, though on the other hand in the east of the province temperature was in defect by one to two degrees. A steady northerly wind current of fairly normal direction was reported at all stations, weather was fine, and there was no rain. On the 21st there had been a rather considerable fall of pressure which continued on the 22nd, but the fall was succeeded by a sharp rise on the 23rd and 24th, the increase on the latter date at many stations equalling about one-eighth of an inch. Pressure again fell by about a twentieth to a tenth of an inch on the 25th, and by an almost similar amount on the 26th, and on this day pressure was in rather considerable defect of the normal over the north of the province, though it was more normal elsewhere. It will thus be seen the pressure changes during the week have been much larger than is usual during the north-east monsoon season. Temperature has also changed considerably. From the 20th to the 21st there had usually been a fall of rather less than a degree; this was succeeded on the 22nd by an increase of from two to three degrees, and on the 23rd by a fall varying at some stations up to more than five degrees, and on the 24th by a further fall which averaged about 3°, but which at many stations exceeded 5°. On the 26th a rise of temperature set in over the northern districts, though the fall continued at the southern stations, and on the 26th the rise continued at the majority of stations, the increase equalling 5° at such stations as Hazaribagh and Gya. It will be seen that in temperature also the changes during the week have been unusually large and variable, and at the close of the week again temperature was in excess of the normal by amounts generally ranging up to about 2°. Wind directions during the week have, however, been fairly steady and tolerably normal in character, and the sky has been usually cloudless, and at no station has there been any rainfall at all.

Pressure.—The mean pressure for the week has varied from the normal by small amounts only, and at most stations it has been above the normal by one or two-hundredths of an inch.

Temperature.—The mean temperature for the week has been about five and-a-half degrees in excess of the normal in Orissa, three degrees in excess in Chutia Nagpur, two degrees in South-West Bengal and South Behar, and nearly one degree above it elsewhere. For the whole province the average excess has been rather more than two degrees. The distribution of temperature during the week and its variation from the normal are best seen in the table below, where the average maximum, minimum, and mean temperatures for the week at nine typical stations in different districts of the province are compared with the normal values for the same period. The variations of the minimum or night temperatures at these stations have been larger than those of the maximum or day temperatures, and the mean excess of the minimum temperatures has been about two and-a-half degrees as against an excess of less than one degree in the day temperature:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending the 26th of December 1890.

	Normal mean maximum temperature for the week ending 26th December.	Actual mean maximum temperature for the week ending 26th December 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 26th December.	Actual mean minimum temperature for the week ending 26th December 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 26th December.	Actual mean daily temperature for the week ending 26th December 1890.	Variation of actual mean from the normal.
Cuttack	81.0	85.0	+4.0	56.7	64.6	+7.9	68.9	74.0	+6.0
Calcutta	74.6	76.8	+2.2	53.6	55.6	+2.0	64.1	66.2	+2.1
Dacca	77.0	76.7	−0.3	55.2	55.1	−0.1	66.1	65.9	−0.2
Burdwan	76.2	77.6	+1.4	53.2	55.4	+2.2	64.7	66.5	+1.8
Patna	72.2	73.0	+0.8	48.8	51.4	+2.6	60.5	62.2	+1.7
Gya	74.2	74.5	+0.3	49.5	53.7	+4.2	61.9	64.1	+2.2
Purneah	74.2	73.4	−0.8	47.4	48.2	+0.8	60.8	60.8	0
Hazaribagh	70.3	71.4	+1.1	48.4	52.0	+3.6	59.4	61.7	+2.3
Darjeeling	47.2	48.1	+0.9	33.6	35.1	+1.5	41.4	40.6	−0.8

Rainfall.—Has been entirely absent from the province throughout the week.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 26th of December 1890 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.							RAINFALL.								
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	87.4	53.5	81.8	63.4	72.6	+5.5	Nil	0.12	-0.12	0.0	0.2	-0.2	0.44	0.51	63.71	53.14
South-West Bengal ...	84.3	48.5	77.4	55.3	66.3	+1.8	Nil	0.05	-0.05	0.0	0.1	-0.1	0.00	0.23	56.92	51.51
East Bengal	78.7	49.6	76.1	54.3	65.2	+0.5	Nil	0.03	-0.03	0.0	0.1	-0.1	0.07	0.35	71.49	74.01
North Bengal	76.5	49.0	74.3	51.4	62.9	+0.7	Nil	Nil	Nil	0.0	0.0	0	Nil	0.13	90.00	68.97
North Behar	75.9	43.5	73.3	49.6	61.5	+0.7	Nil	Nil	Nil	0.0	0.0	0	Nil	0.10	64.38	48.08
South Behar	70.3	45.9	74.3	51.7	63.0	+1.9	Nil	0.02	-0.02	0.0	0.1	-0.1	0.02	0.15	54.68	43.34
Chutia Nagpur	78.1*	44.9*	72.9*	51.4*	62.2*	+3.0*	Nil	0.09	-0.09	0.0	0.2	-0.2	0.09	0.27	46.09	48.58

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL ;

The 30th December 1890.

A. PEDLER,

Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 21st to 27th December 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.				HYGROMETRY.					Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
December ...	21st ...	30.088	67.9	78.9	22.0	56.9	69.3	60.9	.424	54.4	59	Nil
" ...	22nd ...	.062	71.3	81.7	20.8	60.9	74.6	66.4	.540	61.1	62	"
" ...	23rd ...	.148	67.0	76.1	18.2	57.9	71.1	59.7	.362	50.0	47	"
" ...	24th ...	.224	64.9	74.1	18.4	55.7	67.6	58.7	.377	51.1	56	"
" ...	25th ...	.177	64.9	75.7	21.6	54.1	67.4	59.7	.412	53.6	61	"
" ...	26th ...	.091	66.1	78.4	24.7	53.7	67.9	60.9	.443	55.6	65	"
" ...	27th ...	.090	69.0	77.9	17.8	60.1	71.6	62.7	.452	56.1	58	"

The mean 10 A.M. pressure of the seven days 30.126

The mean temperature of the seven days 67.3

The extreme variation of temperature 28.0

The maximum temperature 81.7

The mean 10 A.M. relative humidity of the seven days 58

The total fall of rain from 21st to 27th December 1890 Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

A. PEDLER,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA ;

The 29th December 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from
21st to 27th December 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Dec.	21st	130.8	8.5	30.012	66.7	77.7	21.6	56.1	61.6	0.482	57.9	76	WNW and calm ..	13	Nil	Chiefly clear, Δ , \equiv .
"	22nd	136.5	9.0	29.983	69.2	80.8	21.7	59.1	64.8	.561	62.2	80	WNW and calm ...	28	"	Chiefly clear, Δ , \equiv .
"	23rd	129.9	9.3	30.065	66.4	75.5	18.3	57.2	59.6	.421	54.2	67	NNW and calm ...	52	"	Clear, Δ .
"	24th	123.5	9.0	.133	63.8	73.7	19.3	54.4	56.7	.388	50.5	64	N, NNW and calm	51	"	Chiefly clear, Δ .
"	25th	129.6	9.0	.083	63.5	75.2	20.6	54.6	57.0	.382	51.5	67	NNW and calm ...	35	"	Chiefly clear, Δ .
"	26th	129.0	9.0	.003	63.9	77.4	25.6	51.8	58.4	.420	54.1	73	WNW and calm ...	26	"	Chiefly clear Δ , \equiv .
"	27th	130.0	9.2	.017	66.7	77.9	18.2	59.7	58.6	.387	51.8	60	NNW, WNW and calm.	92	"	Clear, Δ .

The mean pressure of the seven days ... 30.042
The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 30.039

The total number of hours of bright sunshine ... 63.0
The maximum possible number of hours of sunshine ... 74.9

The mean temperature of the seven days ... 65.7
The average temperature of the corresponding period for 24 years, S.-G.'s Office ... 67.3
The extreme variation of temperature ... 29.0
The maximum temperature ... 80.8

The highest velocity of the wind in one hour ... 12
lbs.

The highest pressure of wind on one square foot ... ?
%

The mean relative humidity ... 70
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office ... 71

The total fall of rain from 21st to 27th December 1890 ... Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office ... 0.01
The total fall from 1st January to 27th December 1890 ... 61.28
The average fall of the corresponding period for 24 years, S.-G.'s Office ... 65.24

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

Δ , dew; \equiv fog.

A. PEDLER,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 29th December 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 13th December 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 13th December 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 28.2 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 1.7 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years with which comparison is instituted, *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	26.4	26.6	26.3	26.4	26.9	26.5	28.2

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	22nd Nov. 1890.	29th Nov. 1890.	6th Dec. 1890.	13th Dec. 1890.		22nd Nov. 1890.	29th Nov. 1890.	6th Dec. 1890.	13th Dec. 1890.
Burdwan	39.7	33.6	44.2	15.7	Narainganj	37.3	91.1	74.5	78.7
Midnapore	23.1	26.3	29.4	32.5	Chittazong	9.4	4.7	18.8	21.1
Hughli and Chinsurah	44.3	24.6	29.5	39.4	Comillah	27.0	42.4	50.1	34.7
Serampore	43.2	33.4	25.5	41.2	Patna City	13.3	12.3	15.3	14.6
Utterpara	56.6	58.6	37.7	47.2	Gya	34.2	21.9	27.3	36.9
Howrah	36.1	31.5	36.9	36.6	Arrah	33.5	10.8	20.9	13.2
Bali	31.6	14.0	35.1	45.6	Mozufferpore	16.9	24.3	31.6	20.7
Krishnagar	11.4	9.5	13.2	15.1	Darbhanga	49.1	44.4	44.1	25.2
Ranaghat	12.0	6.0	6.0	17.9	Chupra	22.1	21.1	35.2	29.3
Santipore	24.5	22.8	17.5	22.8	Bhagulpore	24.4	40.7	31.7	39.8
Jessore	6.1	6.1	...	...	Monghyr	38.9	37.1	41.6	37.1
Rampore Beaulah	52.3	49.9	44.7	25.9	Purneah	16.4	17.3	17.3	26.8
Darjiling	29.6	44.5	29.6	29.6	Poori	14.7	12.6	33.6	18.9
Dacca	31.1	31.1	42.8	35.0	Total	27.6	26.5	30.5	28.2

It will be seen that last week the highest birth-rate was returned from Narainganj (78.7) and the lowest from Arrah (13.2). No births were registered during the week in Jessore town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 31.5 per 1,000 of the population. The rate of the week is .2 higher than the average rate of the corresponding week of the past five years, and is below the rate of the corresponding week of any of the past five years except 1887 and 1888, *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	34.7	35.3	26.5	24.8	31.6	31.3	31.5

The deaths registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	22nd Nov. 1890.	29th Nov. 1890.	6th Dec. 1890.	13th Dec. 1890.		22nd Nov. 1890.	29th Nov. 1890.	6th Dec. 1890.	13th Dec. 1890.
Burdwan	33.6	41.2	27.5	44.2	Narainganj	58.0	120.1	120.1	128.5
Midnapore	29.4	20.1	29.4	52.7	Chittazong	9.4	18.8	29.3	24.2
Hughli and Chinsurah	37.7	27.0	29.5	30.1	Comillah	23.1	20.8	30.8	42.4
Serampore	56.4	55.0	68.7	74.6	Patna City	14.3	14.6	11.0	16.6
Utterpara	28.3	75.5	66.1	42.2	Gya	40.9	30.4	65.3	47.1
Howrah	26.9	20.9	44.7	42.4	Arrah	13.2	7.3	23.9	7.2
Bali	17.5	17.5	21.1	70.2	Mozufferpore	17.0	14.6	23.1	15.8
Krishnagar	5.7	5.7	18.9	24.6	Darbhanga	34.0	27.5	20.0	24.6
Ranaghat	30.0	35.9	12.3	63.9	Chupra	13.1	8.0	27.2	19.1
Santipore	17.5	8.8	19.3	7.0	Bhagulpore	19.0	15.4	23.2	19.0
Jessore	18.4	30.7	18.4	39.6	Monghyr	26.2	24.0	25.0	25.3
Rampore Beaulah	47.3	47.3	31.5	47.3	Purneah	6.0	26.8	13.2	13.9
Darjiling	...	22.2	51.9	7.4	Poori	58.7	49.5	75.4	42.0
Dacca	45.4	28.5	31.1	36.3	Total	28.1	25.7	31.5	31.5

It will be seen that last week the highest mortality occurred in the town of Narainganj (128.3) and the lowest in Santipore (7).

Measured by last week's mortality, the highest annual death-rates from the several registered death-causes occurred in the following towns:—

<i>Cholera.</i>	<i>Small-pox.</i>	<i>Fever.</i>	<i>Bowel-complaints.</i>	<i>Other causes.</i>
Ratio per mille.	Ratio per mille.	Ratio per mille.	Ratio per mille.	Ratio per mille.
Narainganj 70.4	Midnapore 10.8	Rampore Beaulah 39.4	Serampore 21.6	Narainganj ... 49.2
Utterpara 28.3		Gya ... 34.8	Howrah ... 10.3	Bali ... 21.0
Ranaghat 17.9		Bali ... 31.6		Serampore ... 19.9
Howrah ... 17.2		Burdwan ... 27.5		Midnapore ... 17.9
Bali ... 14.0		Jessore ... 24.5		Dacca ... 15.0
Dacca ... 9.7		Serampore ... 23.5		Monghyr ... 11.8
Serampore 7.9		Comillah ... 23.4		Hughli and Chinsurah 11.5
Krishnagar 7.5		Poori ... 23.1		
Hughli and Chinsurah 6.6				

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 4.7 from cholera, against 3.9 per 1,000 in the preceding week; 6 from small-pox, against .5; 13.4 from fever, against 13.7; 3.9 from bowel-complaints, against 3.3; 6 from injury, against .4; and 8.3 from other causes, against 9.7 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

<i>According to Sex.</i>	<i>According to Class.</i>	<i>According to Age.</i>
Ratio per mille.	Ratio per mille.	Ratio per mille.
Males ... 33.7	Christians ... 22.4	Under 1 year ... 215.1
Females ... 29.1	Hindus ... 32.5	1 and under 5 years ... 34.1
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population... 115	Mahomedans ... 29.8	5 " 10 " ... 18.8
		10 " 15 " ... 13.5
		15 " 20 " ... 23.8
		20 " 30 " ... 20.9
		30 " 40 " ... 19.9
		40 " 60 " ... 23.3
		50 " 60 " ... 32.9
		60 years and upwards ... 93.3

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

The 29th December 1890.

Sanitary Commissioner for Bengal.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 13th December 1890.

1	2	3			4			5			6	7			8			9	10	11	12											
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.			MORTALITY ACCORDING TO—																								
		Males.	Females.	Total.	NUMBERS OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.	Ratio of male births to every 100 female births.	DISEASE.							Ratio of deaths per 1,000 of population per annum in the previous week.	Sex.														
					Males.	Females.	Total.			DEATHS FROM—						RATIO PER 1,000 OF POPULATION PER ANNUM.						DEATHS.	RATIO PER 1,000 OF POPULATION PER ANNUM.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.								
										Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Cholera.	Small-pox.	Fever.	Bowel-complaints.				Injury.	Other diseases.	All causes.					
Burdwan ...	Burdwan ...	18,063	16,617	34,680	5	4	9	7.6	6.1	13.7	125	2	...	18	5	...	4	29	3.0	...	27.5	7.6	...	6.1	44.2	27.5	16	13	46.1	42.2	169	
Midnapore ...	Midnapore ...	16,927	16,633	33,560	12	9	21	18.6	13.9	32.5	133	1	7	12	8	...	11	34	1.5	10.8	18.6	4.6	...	17.0	52.7	29.4	17	17	52.2	53.1	98	
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	11	13	24	18.1	21.3	39.4	84	4	...	6	5	...	7	22	6.6	...	9.8	8.2	...	11.5	36.1	29.5	14	8	45.9	26.3	174	
Serampore ...	Serampore ...	13,352	12,937	26,289	15	6	21	29.4	11.8	41.2	250	4	...	12	11	1	10	38	7.9	...	23.5	21.6	2.0	19.6	74.6	68.7	22	16	84.4	64.3	131	
	Utterpara ...	5,446	2,464	7,910	4	1	5	37.7	9.4	47.2	400	3	...	1	1	...	...	5	28.3	...	9.4	9.4	...	...	47.2	66.1	3	2	61.2	42.2	121
Howrah ...	Howrah ...	53,153	37,660	90,813	28	26	54	16.0	20.6	36.6	77	30	...	15	18	1	10	74	17.2	...	8.6	10.3	7.6	5.7	42.4	44.7	47	27	46.0	37.3	123	
	Bali ...	7,836	6,979	14,815	7	6	13	24.6	21.0	45.6	116	4	...	9	1	...	6	20	14.0	...	31.6	3.5	...	31.0	70.2	21.1	15	5	99.5	37.3	266	
Nuddea ...	Krishnagar ...	13,263	14,214	27,477	6	2	8	11.3	3.8	15.1	200	4	...	5	...	1	3	13	7.5	...	9.5	...	1.9	5.7	24.6	18.9	7	6	27.4	22.0	124	
	Ranaghat ...	4,928	4,635	9,563	...	3	3	...	17.9	17.9	No male birth.	3	...	3	2	...	1	9	17.9	...	17.9	12.0	...	0.0	53.9	12.0	6	3	77.5	33.5	231	
Santipore ...	Santipore ...	13,708	15,979	29,687	10	3	13	17.3	5.3	22.8	333	...	...	4	...	...	...	4	...	...	7.0	...	...	...	7.0	19.3	1	3	3.8	9.8	38
	Jessore ...	4,830	3,665	8,495	4	1	5	24.5	6.1	30.6	18.4	2	3	21.5	42.0	59
Rajshahye ...	Rampore Beaulah ...	10,766	9,025	19,791	9	2	11	23.6	5.8	28.9	450	1	...	15	1	...	1	18	2.6	...	39.4	2.6	...	2.6	47.3	31.5	7	11	33.8	63.4	53	
Darjiling ...	Darjiling ...	4,579	2,439	7,018	3	1	4	22.2	7.4	29.6	300	...	...	1	...	...	...	1	...	...	7.4	...	...	...	7.4	51.9	1	...	11.4	...	No female death.
Dacca ...	Dacca ...	43,782	37,379	81,161	31	23	54	20.1	14.9	35.0	134	15	...	14	2	1	24	56	9.7	...	9.1	1.3	...	15.6	36.3	31.1	32	24	38.9	33.4	116	
	Narainganj ...	7,605	4,956	12,561	8	11	19	33.1	45.5	78.7	72	17	...	1	1	...	12	31	70.4	...	4.1	4.1	...	49.7	128.3	120.1	20	11	136.8	115.4	118	
Chittagong ...	Chittagong ...	13,549	8,790	22,339	8	7	15	4.7	16.4	21.1	23	...	2	2	4	1	3	12	...	4.7	4.7	9.4	2.3	...	7.0	28.2	28.2	8	4	31.2	23.7	151
Tipperah ...	Comillah ...	8,133	5,353	13,506	3	6	9	11.6	23.1	34.7	50	1	...	6	4	11	3.0	...	23.1	15.4	42.4	30.8	4	7	25.5	68.0	37
Patna ...	Patna City ...	78,768	81,475	160,243	22	23	45	7.1	7.5	14.6	95	4	2	20	5	1	19	51	1.5	...	6.5	1.6	6.2	16.6	11.6	29	22	19.1	14.0	136
Gya ...	Gya ...	38,290	37,534	75,824	23	51	54	15.7	21.2	36.9	74	1	...	51	1	2	14	69	7	...	34.8	7	1.4	9.5	47.1	62.8	31	38	42.1	52.2	89	
Shahabad ...	Arrah ...	20,960	22,505	43,465	9	2	11	10.8	2.4	13.2	450	...	...	5	1	...	...	6	...	...	6.0	1.2	...	...	7.2	23.9	5	1	12.4	2.3	539
Mozufferpore ...	Mozufferpore ...	33,084	19,658	52,742	5	12	17	6.1	14.6	20.7	61	4	6	...	3	13	4.9	7.3	3.6	15.8	23.1	8	5	18.0	13.2	188
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	15	17	32	11.8	13.4	25.2	88	1	...	19	3	...	7	30	8	...	14.9	2.4	5.5	23.6	26.0	16	14	24.6	22.5	109
Sarun ...	Chupra ...	25,116	26,554	51,670	14	15	29	14.1	15.1	29.2	93	8	2	2	7	19	8.0	2.0	7.0	19.1	27.2	13	6	26.9	11.7	229
Bhagulpore ...	Bhagulpore ...	29,640	27,313	56,953	25	19	44	22.6	17.2	39.8	131	17	4	21	15.4	3.6	19.0	23.5	7	14	12.3	26.2	47
Monghyr ...	Monghyr ...	28,164	29,306	57,470	24	17	41	21.7	15.4	37.1	141	8	6	1	13	28	7.2	5.4	11.8	25.3	25.0	15	13	27.7	23.0	120
Purneah ...	Purneah ...	8,463	6,553	15,016	4	2	6	13.9	6.9	20.8	200	2	1	...	1	4	6.9	3.5	3.5	13.9	13.9	2	2	12.3	15.9	77
Poori ...	Poori ...	13,247	11,537	24,784	5	4	9	10.5	8.4	18.9	125	1	1	11	2	1	4	20	2.1	2.1	23.1	4.2	2.1	8.4	42.0	73.4	9	11	35.3	49.6	71	
Total ...		550,986	510,588	1,061,574	300	275	575	14.7	13.5	28.2	109	96	12	273	81	12	169	643	4.7	6	13.4	8.9	6	8.8	31.5	31.5	357	286	83.7	29.1	115	

MORTALITY ACCORDING TO-

DISTRICTS.	NAMES OF MUNICIPALITIES.	Class.								Age.																					
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.			DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.											
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	Land under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	Land under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	22	7				45.3	35.5			6	1	2		1	5	2	6		6	472.7	23.6	44.6		16.6	32.8	15.1	70.6		216.5	
Midnapore	Midnapore	30	4				60.2	28.8			8	5	5	2	2	2	1	2	2	5	530.9	110.5	69.4	34.2	31.9	14.2	9.4	27.9	50.4	142.1	
Hughli	Hughli and Chinsurah	18	1				37.0	33.7			6	1			3	3	5	2		2	388.5	23.4			62.2	25.1	45.5	24.9		50.2	
Serampore	Serampore	1	34	3			163.0	70.1	166.3			7	7	4		2	6	2	2	4	4	512.7	201.7	82.7		45.6	57.9	20.9	30.8	108.6	149.5
	Utterpara		5				48.8							1	1		1		1	1				111.6	108.6		45.2		74.2	141.3	
Howrah	Howrah	2	47	25			54.9	35.9	63.4			4	5	4	6	4	11	15	7	7	11	100.8	43.9	33.1	47.4	28.4	25.2	40.5	31.0	66.0	152.5
	Balli		17	3			65.9	119.0			3	2			1		3	1	3	7	430.9	104.1			39.0		55.9	20.9	148.9	497.3	
Nuddea	Krishnagar		9	4			25.1	25.1			3		1	1	1	3	2		1	1	314.5		15.1	18.5	25.3	32.4	24.3		24.7	50.1	
	Banaghat		8	1			26.8	38.1				1	1			3	1		2	1		65.4	46.6			103.4	41.7		143.6	91.4	
	Santipore		1	3			2.5	17.4			1									1	2	61.5							22.6	53.0	
Jessore	Jessore		2	3			23.1	40.8			2				1		1		1		236.1				71.0		34.0		92.4		
Rajshahye	Rampore Beaulah		7	11			36.7	58.3						3	3	2	3	1	2		4			75.0	80.6	62.6	37.5	14.4	42.4		216.0
Darjiling	Darjiling		1				11.3										1											36.3			
Dacca	Dacca		35	21			43.2	27.8			8	7	4	3	3	9	9	4	5	4	219.2	49.4	21.0	19.6	21.4	30.5	40.1	24.8	54.9	37.3	
	Narainganj		12	19			98.7	100.4			7	1	2		8	2	2	4		5	1,304.7	45.6	78.7		398.1	33.0	48.6	149.3		398.8	
Chittagong	Chittagong		2	10			17.9	34.0			2		2	1		2	3			2	184.7		41.6	20.2		22.5	46.8			130.7	
Tipperah	Comillah		5	6			43.7	42.2				3			2	1	1	1		3		119.3			83.7	18.8	26.1	39.6		230.1	
Patna	Patna City		40	11			17.5	14.0			5	5	2	1	1	9	4	6	4	14	60.3	17.8	6.2	3.6	4.7	16.2	8.9	16.6	14.7	62.7	
Gya	Gya		63	6			54.6	19.4			6	5	4	2	3	12	6	6	9	10	174.3	40.9	22.7	15.5	20.8	42.4	24.5	31.9	71.3	161.6	
Shahabad	Arrah		4	2			35.0	14.1			2	1		1		1				1	80.7	11.7		11.8		6.6				18.0	
Mozufferpore	Mozufferpore		6	7			10.4	29.2			1	3				2		1	1	5	54.5	38.6					12.1		10.4	16.0	106.8
Durbhanga	Durbhanga		25	5			26.9	14.8			12	5	3	1	1		1	2		5	400.8	54.2	19.9	9.4	12.9		4.7	14.0		81.4	
Sarun	Chupra		15	4			19.7	17.5			4	2	1			1	4	2		5	147.4	20.1	8.7			5.6	26.7	17.1		76.4	
Bhagulpore	Bhagulpore		19	2			24.8	6.0			7	2				2	2	3	4	1	304.9	19.2				9.5	11.2	24.8	48.8	14.4	
Monghyr	Monghyr		23	5			26.7	20.7			8	2		1	1	3		3	1	9	280.1	16.7		9.1	15.8	15.1		24.5	13.1	130.5	
Purneah	Purneah		4				22.7				1					3					183.7					47.5					
Poori	Poori		20				42.4				2	3	1	2	1	1	1	1	3	5	343.2	86.3	23.2	25.4	28.0	9.8	12.8	15.6	60.9	144.0	
TOTAL			3	474	103		22.4	32.5	29.3		105	61	40	25	37	85	67	56	49	118	215.1	34.1	18.8	15.6	20.3	20.9	19.9	23.3	32.9	93.3	

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 27th December 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 27TH DECEMBER 1890.			WEEK ENDING SATURDAY, THE 28TH DECEMBER 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ...	1,598	1,24,875	1,890	1,744	1,59,595	2,298
Jute ...	264	1,34,325	2,629	379	4,00,650	4,166
Firewood ...	123	77,025	1,137	80	48,650	639
Other articles ...	1,194	2,54,960	4,036	1,025	2,56,170	4,042
Total ...	3,179	5,91,185	9,692	3,228	8,63,065	11,199

Weekly Return of Traffic Receipts on Indian Railways.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., Dacca, K.-D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 13th December 1890, on 763 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchan- dise.	TOTAL
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	150,925	77,610 0 0	5,42,314 0	1,42,050 0 0	17,280 0 0	2,36,340 0 0	25,072	36,244	61,316
Or per mile of railway ...	198	101 0 0	711 0	186 0 0	13 0 0	290 0 0	...	...	...
For previous 23 weeks of half-year ...	3,284,324	14,69,071 0 0	1,39,70,100 0	34,99,570 0 0	4,09,189 0 0	53,68,831 0 0	511,501	771,632	1,283,133
Total for 24 weeks ...	3,435,319	15,46,681 0 0	1,45,12,513 0	36,41,620 0 0	4,17,469 0 0	56,05,161 0 0	536,573	807,876	1,344,449
COMPARISON.									
Total for corresponding week of previous year ...	140,647	68,931 0 0	7,18,800 0	1,97,102 0 0	22,763 0 0	2,59,861 0 0	22,173	39,490	61,663
Per mile of railway corresponding period of previous year ...	188	92 0 0	953 0	264 0 0	13 6 0	364 0 0	...	...	...
Total to corresponding date of previous year ...	3,478,442	15,77,435 0 0	1,52,96,744 0	38,55,280 0 0	4,39,459 0 0	58,72,174 0 0	541,492	791,582	1,333,074

* Audited up to week ending 25th October 1890.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 14TH DECEMBER 1889.			RECEIPTS FOR WEEK ENDING 13TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 14TH DECEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 13TH DECEMBER 1890.			Total increase in 1890.	Total decrease 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	2,58,801	387	763	2,36,340	310	718	89,07,616	301	760	*79,87,819	284	...	11

* Audited up to week ending 25th October 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 13th December 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	2,803	Rs. A. P. 1,330 0 0	Mds. S. 15,225 0	Rs. A. P. 800 0 0	Rs. A. P. 10 0 0	Rs. A. P. 2,140 0 0	591	335	926
Or per mile of railway ...	106	49 0 0	554 0	29 0 0	1 0 0	79 0 0	.....	.....	.....
For previous 23 weeks of half-year ...	67,552	24,400 0 0	2,37,818 0	12,775 0 0	423 0 0	27,678 0 0	15,571	8,578	24,149
Total for 24 weeks ...	70,445	25,820 0 0	2,53,743 0	13,575 0 0	423 0 0	29,818 0 0	16,162	8,913	25,075
COMPARISON.									
Total for corresponding week of previous year ...	3,536	1,318 0 0	12,526 0	660 0 0	28 0 0	2,012 0 0	586	420	1,006
Per mile of railway corresponding period of previous year ...	141	48 0 0	471 0	25 0 0	1 0 0	74 0 0	.....	.....	.....
Total to corresponding date of previous year ...	75,858	27,520 0 0	2,21,013 0	14,526 0 0	1,882 0 0	45,941 0 0	18,914	8,522	23,436

* Audited up to week ending 25th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 14TH DECEMBER 1889.			RECEIPTS FOR WEEK ENDING 13TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 14TH DECEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 13TH DECEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
27½	Rs. 2,612	74	27½	Rs. 2,140	79	27½	Rs. 69,320	69	27½	Rs. 23,740	65	.....	3,780

* Audited up to week ending 25th October 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 13th December 1890, on 699 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-beat earnings.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	75,330	Rs. 29,430	Mds. 9,28,770	Rs. 40,950	Rs. 7,370	Rs. 86,750	13,010	13,700	26,770
Or per mile of railway ...	107.73	42.10	470.34	71.47	10.54	124.11	.....	.....	.....
For previous 23 weeks of half-year ...	1,785,260	6,98,648	62,05,434	8,11,140	1,58,724	16,68,512	284,984	270,242	554,226
Total for 23 weeks ...	1,860,530	7,28,078	63,95,204	8,61,000	1,66,604	17,55,262	297,994	293,002	590,996
COMPARISON.									
Total for corresponding week of previous year ...	78,350	29,906	3,13,317	33,338	7,053	75,297	10,459	14,205	24,664
Per mile of corresponding week of previous year ...	112.63	46.08	490.47	59.07	10.07	110.02	.....	.....	.....
Total to corresponding date of previous year ...	1,911,237	7,30,906	64,95,307	7,56,426	1,92,834	16,80,196	271,169	302,375	573,544

* Steam-beat earnings for the week Rs. 6,370

Ditto ditto to date .. 1,38,647

* Ajodhya bridge earnings for the week .. 440

Ditto ditto to date .. 10,230

Train mileage figures:—

a Bengal & N. W. Section, Tirhoot Section.

Coaching ... Rs. 4,980

Goods ... Rs. 6,130

Total ... Rs. 13,210

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

RECEIPTS FOR WEEK ENDING 13TH DECEMBER 1889.			RECEIPTS FOR WEEK ENDING 13TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 13TH DECEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 13TH DECEMBER 1890.			Total increase in 1890-91.	Total decrease 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
699	Rs. 86,750	124.11	649	Rs. 75,297	116.02	677	Rs. 30,75,642	123.87	649	Rs. 29,65,849	125.24	Rs. 89,093	.....

N.W.—Earnings of B. and N. W. Section.

Week ended 13-12-89. Week ended 13-12-89.

Coaching ... Rs. 13,763

Goods ... Rs. 12,319

Other earnings ... Rs. 3,209

Total ... Rs. 35,291

Earnings of Tirhoot Section.

Week ended 13-12-89. Week ended 13-12-89.

Coaching ... Rs. 16,343

Goods ... Rs. 25,019

Other earnings ... Rs. 3,833

Total ... Rs. 45,215

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.						Rs.
Approximate earnings for week ending 22nd November 1890	...	...	...	...	...	10,333
Corresponding period of 1889	...	...	...	...	...	10,693
Decrease	...	...	...	...	...	360
						Rs. A. P.
Receipts per mile for week ending 22nd November 1890	...	...	...	...	...	202 9 9
Corresponding period of 1889	...	...	...	...	...	209 19 10
Decrease	...	...	...	...	...	7 1 1
Receipts from 1st July to 22nd November 1890	...	...	...	...	...	2,36,518
Corresponding period of 1889	...	...	...	...	...	2,30,409
Decrease	...	...	...	...	...	6,109

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.						Rs.
Approximate earnings for week ending 29th November 1890	...	...	...	...	...	11,670
Corresponding period of 1889	...	...	...	...	...	11,073
Increase	...	...	...	...	...	597
						Rs. A. P.
Receipts per mile for week ending 29th November 1890	...	...	...	...	...	228 13 2
Corresponding period of 1889	...	...	...	...	...	217 2 0
Increase	...	...	...	...	...	11 11 2
Receipts from 1st July to 29th November 1890	...	...	...	...	...	2,42,079
Corresponding period of 1889	...	...	...	...	...	2,47,591
Decrease	...	...	...	...	...	5,512